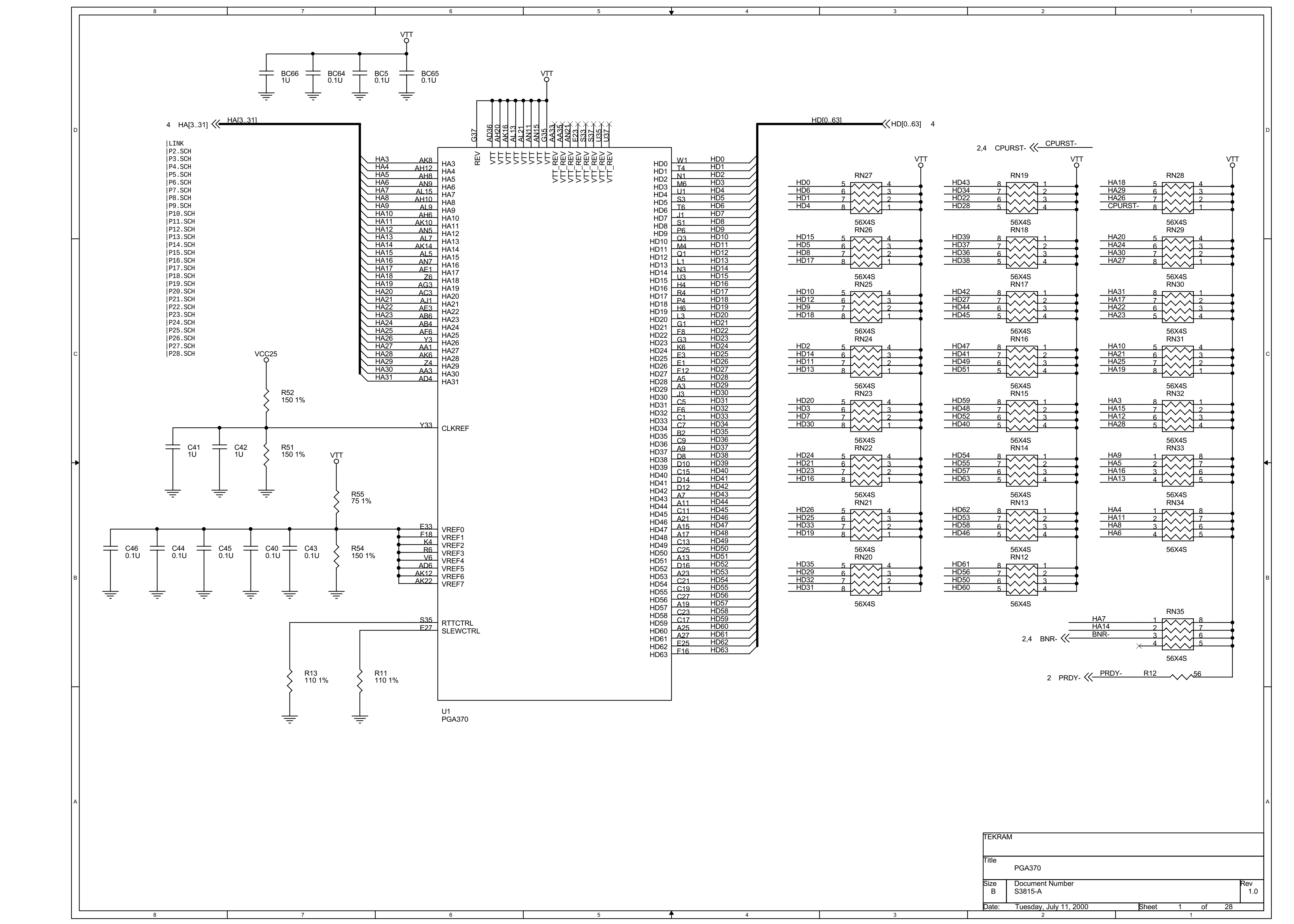
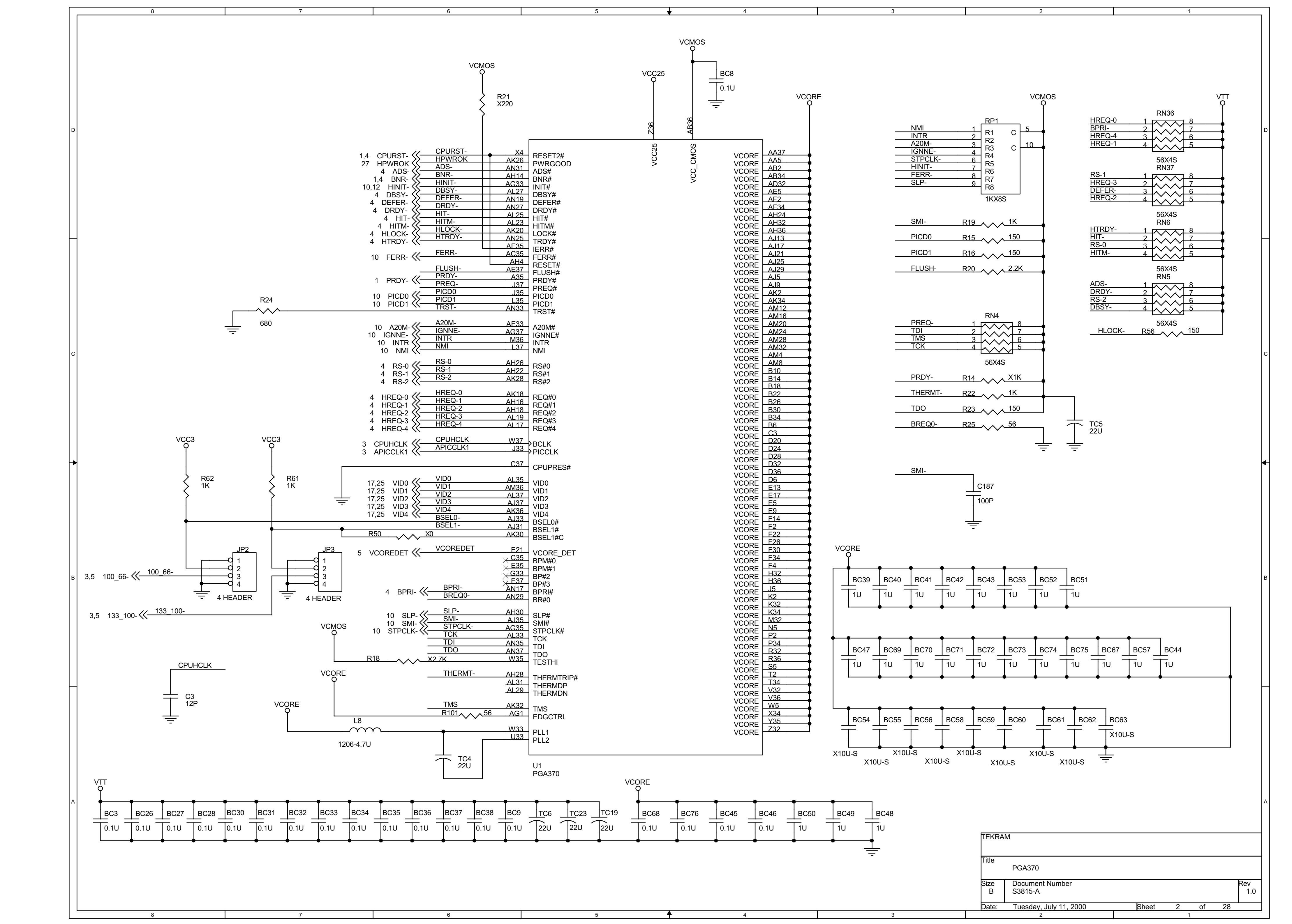
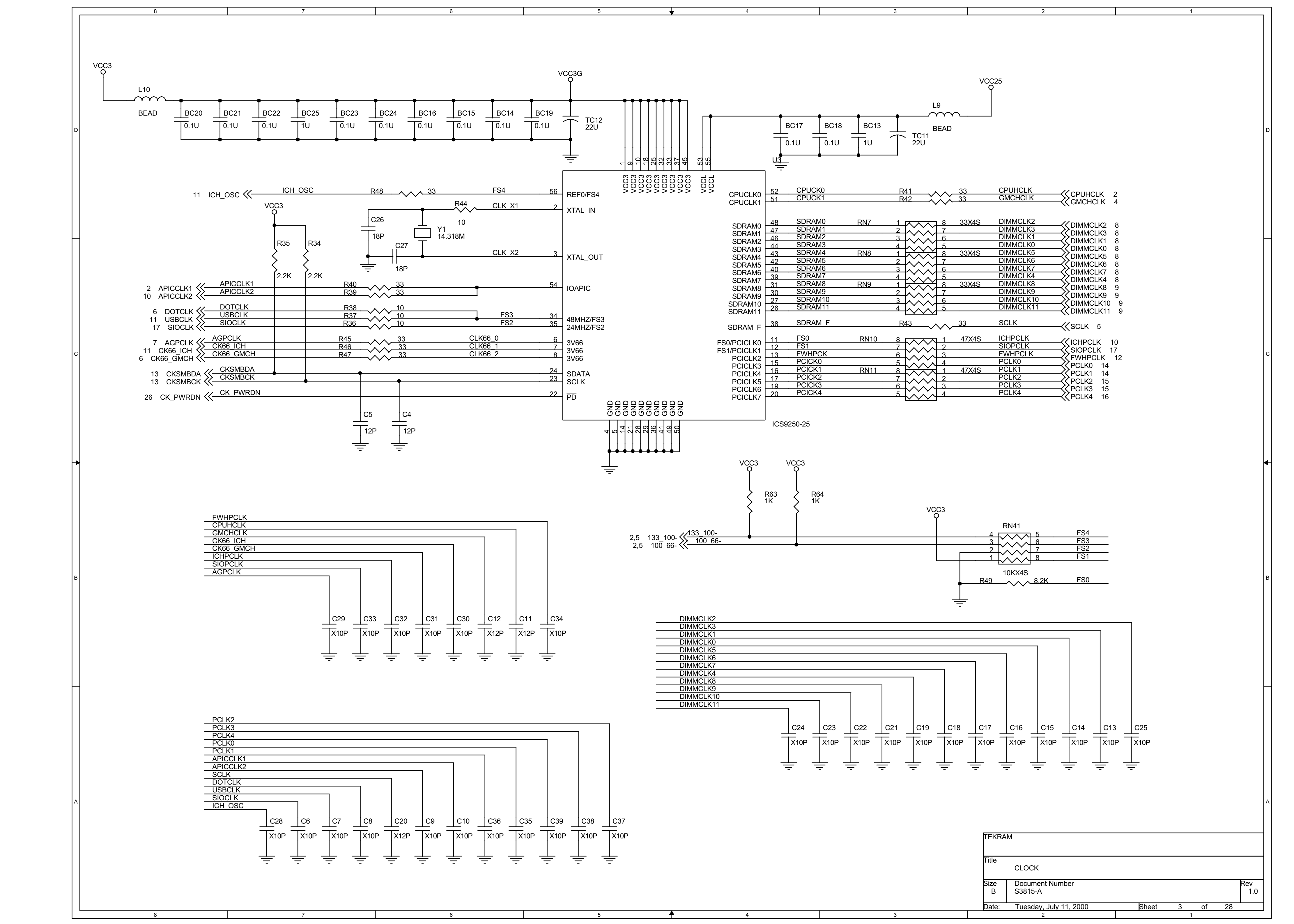
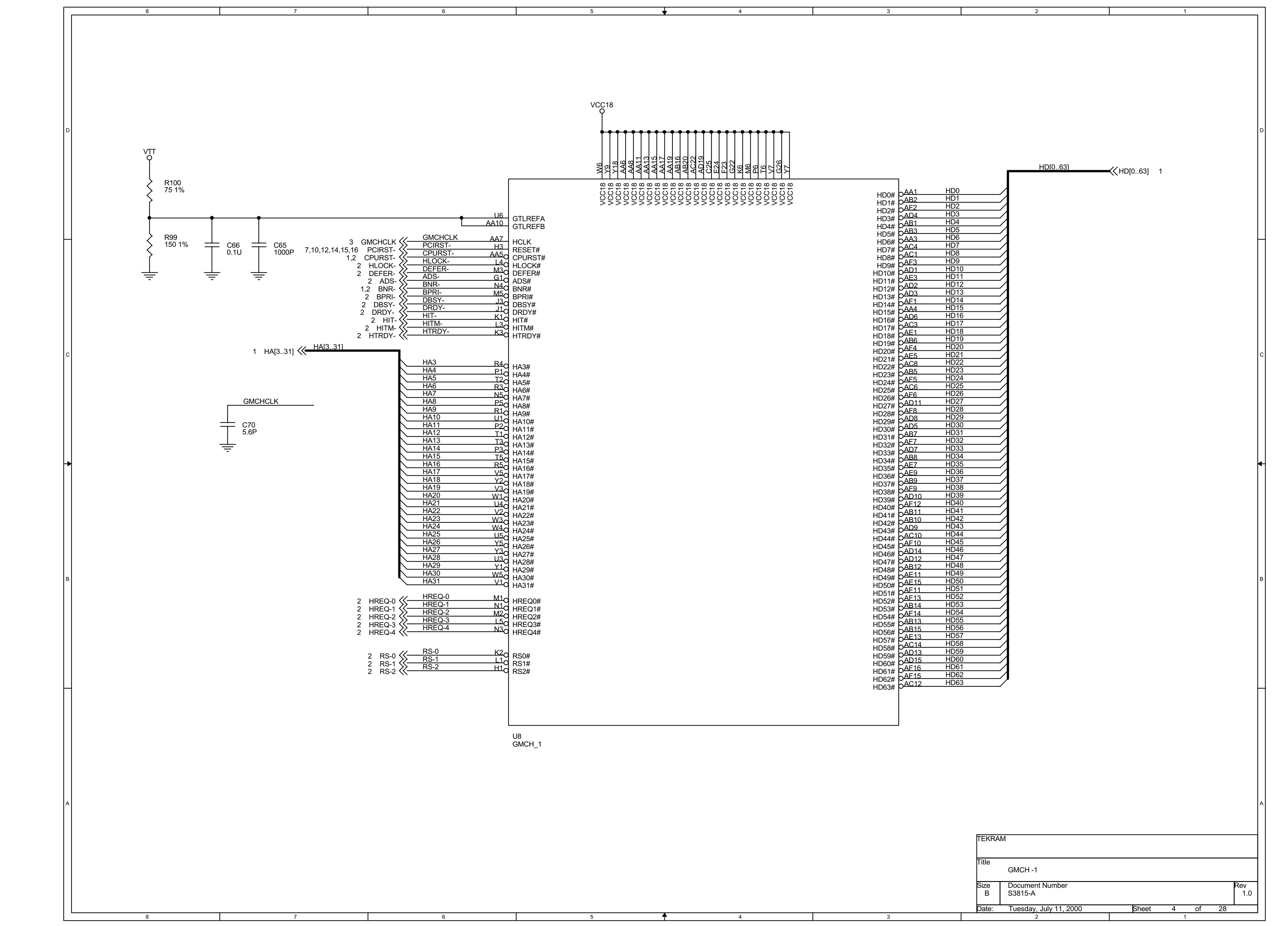


VTT
BC66 1U
BC64 0.1U
BC5 0.1U
BC65 0.1U
4 HA[3..31]
HA[3..31]
HD[0..63]
HD[0..63] 4
|LINK
|P2.SCH
|P3.SCH
|P4.SCH
|P5.SCH
|P6.SCH
|P7.SCH
|P8.SCH
|P9.SCH
|P10.SCH
|P11.SCH
|P12.SCH
|P13.SCH
|P14.SCH
|P15.SCH
|P16.SCH
|P17.SCH
|P18.SCH
|P19.SCH
|P20.SCH
|P21.SCH
|P22.SCH
|P23.SCH
|P24.SCH
|P25.SCH
|P26.SCH
|P27.SCH
|P28.SCH
G37 AD36 AH20 AK16 AL13 AL21 AN11 AN15 G35 AA33 AA35 AN21 E23 S33 S37 U35 U37
REV VTT VTT VTT VTT VTT VTT VTT VTT_REV VTT_REV VTT_REV VTT_REV VTT_REV VTT_REV VTT_REV VTT_REV
HA3 AK8 HA3
HA4 AH12 HA4
HA5 AH8 HA5
HA6 AN9 HA6
HA7 AL15 HA7
HA8 AH10 HA8
HA9 AL9 HA9
HA10 AH6 HA10
HA11 AK10 HA11
HA12 AN5 HA12
HA13 AL7 HA13
HA14 AK14 HA14
HA15 AL5 HA15
HA16 AN7 HA16
HA17 AE1 HA17
HA18 Z6 HA18
HA19 AG3 HA19
HA20 AC3 HA20
HA21 AJ1 HA21
HA22 AE3 HA22
HA23 AB6 HA23
HA24 AB4 HA24
HA25 AF6 HA25
HA26 Y3 HA26
HA27 AA1 HA27
HA28 AK6 HA28
HA29 Z4 HA29
HA30 AA3 HA30
HA31 AD4 HA31
VCC25
R52 150 1%
Y33 CLKREF
C41 1U
C42 1U
R51 150 1%
R55 75 1%
C46 0.1U
C44 0.1U
C45 0.1U
C40 0.1U
C43 0.1U
R54 150 1%
E33 VREF0
F18 VREF1
K4 VREF2
R6 VREF3
V6 VREF4
AD6 VREF5
AK12 VREF6
AK22 VREF7
S35 RTTCTRL
E27 SLEWCTRL
R13 110 1%
R11 110 1%
U1
PGA370
HD0 W1 HD0
HD1 T4 HD1
HD2 N1 HD2
HD3 M6 HD3
HD4 U1 HD4
HD5 S3 HD5
HD6 T6 HD6
HD7 J1 HD7
HD8 S1 HD8
HD9 P6 HD9
HD10 Q3 HD10
HD11 M4 HD11
HD12 Q1 HD12
HD13 L1 HD13
HD14 N3 HD14
HD15 U3 HD15
HD16 H4 HD16
HD17 R4 HD17
HD18 P4 HD18
HD19 H6 HD19
HD20 L3 HD20
HD21 G1 HD21
HD22 F8 HD22
HD23 G3 HD23
HD24 K6 HD24
HD25 E3 HD25
HD26 E1 HD26
HD27 F12 HD27
HD28 A5 HD28
HD29 A3 HD29
HD30 J3 HD30
HD31 C5 HD31
HD32 F6 HD32
HD33 C1 HD33
HD34 C7 HD34
HD35 B2 HD35
HD36 C9 HD36
HD37 A9 HD37
HD38 D8 HD38
HD39 D10 HD39
HD40 C15 HD40
HD41 D14 HD41
HD42 D12 HD42
HD43 A7 HD43
HD44 A11 HD44
HD45 C11 HD45
HD46 A21 HD46
HD47 A15 HD47
HD48 A17 HD48
HD49 C13 HD49
HD50 C25 HD50
HD51 A13 HD51
HD52 D16 HD52
HD53 A23 HD53
HD54 C21 HD54
HD55 C19 HD55
HD56 C27 HD56
HD57 A19 HD57
HD58 C23 HD58
HD59 C17 HD59
HD60 A25 HD60
HD61 A27 HD61
HD62 E25 HD62
HD63 F16 HD63
2,4 CPURST-
CPURST-
RN27 HD0 HD6 HD1 HD4 56X4S
RN26 HD15 HD5 HD8 HD17 56X4S
RN25 HD10 HD12 HD9 HD18 56X4S
RN24 HD2 HD14 HD11 HD13 56X4S
RN23 HD20 HD3 HD7 HD30 56X4S
RN22 HD24 HD21 HD23 HD16 56X4S
RN21 HD26 HD25 HD33 HD19 56X4S
RN20 HD35 HD29 HD32 HD31 56X4S
RN19 HD43 HD34 HD22 HD28 56X4S
RN18 HD39 HD37 HD36 HD38 56X4S
RN17 HD42 HD27 HD44 HD45 56X4S
RN16 HD47 HD41 HD49 HD51 56X4S
RN15 HD59 HD48 HD52 HD40 56X4S
RN14 HD54 HD55 HD57 HD63 56X4S
RN13 HD62 HD53 HD58 HD46 56X4S
RN12 HD61 HD56 HD50 HD60 56X4S
RN28 HA18 HA29 HA26 CPURST- 56X4S
RN29 HA20 HA24 HA30 HA27 56X4S
RN30 HA31 HA17 HA22 HA23 56X4S
RN31 HA10 HA21 HA25 HA19 56X4S
RN32 HA3 HA15 HA12 HA28 56X4S
RN33 HA9 HA5 HA16 HA13 56X4S
RN34 HA4 HA11 HA8 HA6 56X4S
RN35 HA7 HA14 BNR- 56X4S
2,4 BNR-
2 PRDY-
PRDY-
R12 56
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Title
PGA370
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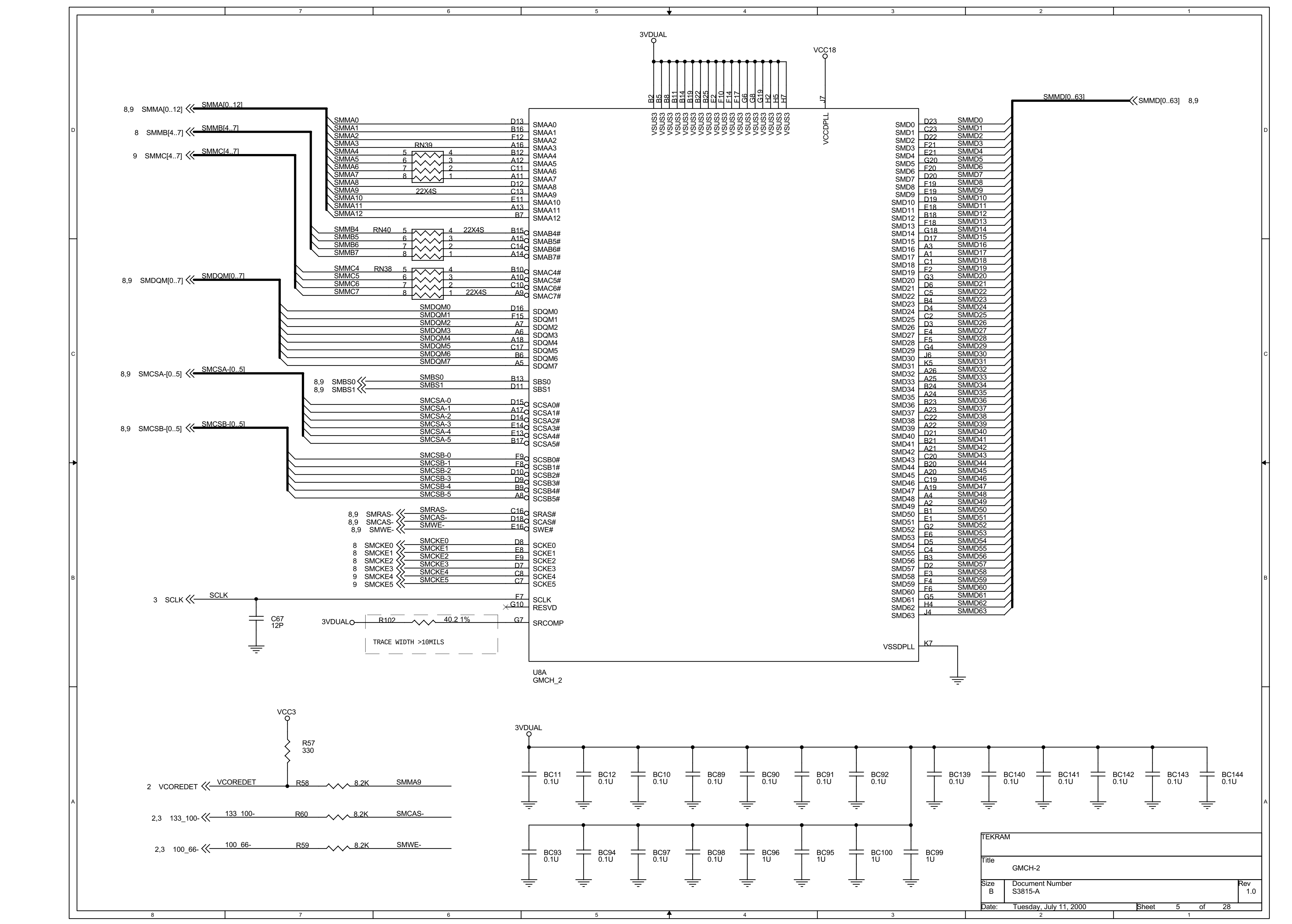


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Size: B	Document Number: S3815-A	Rev: 1.0
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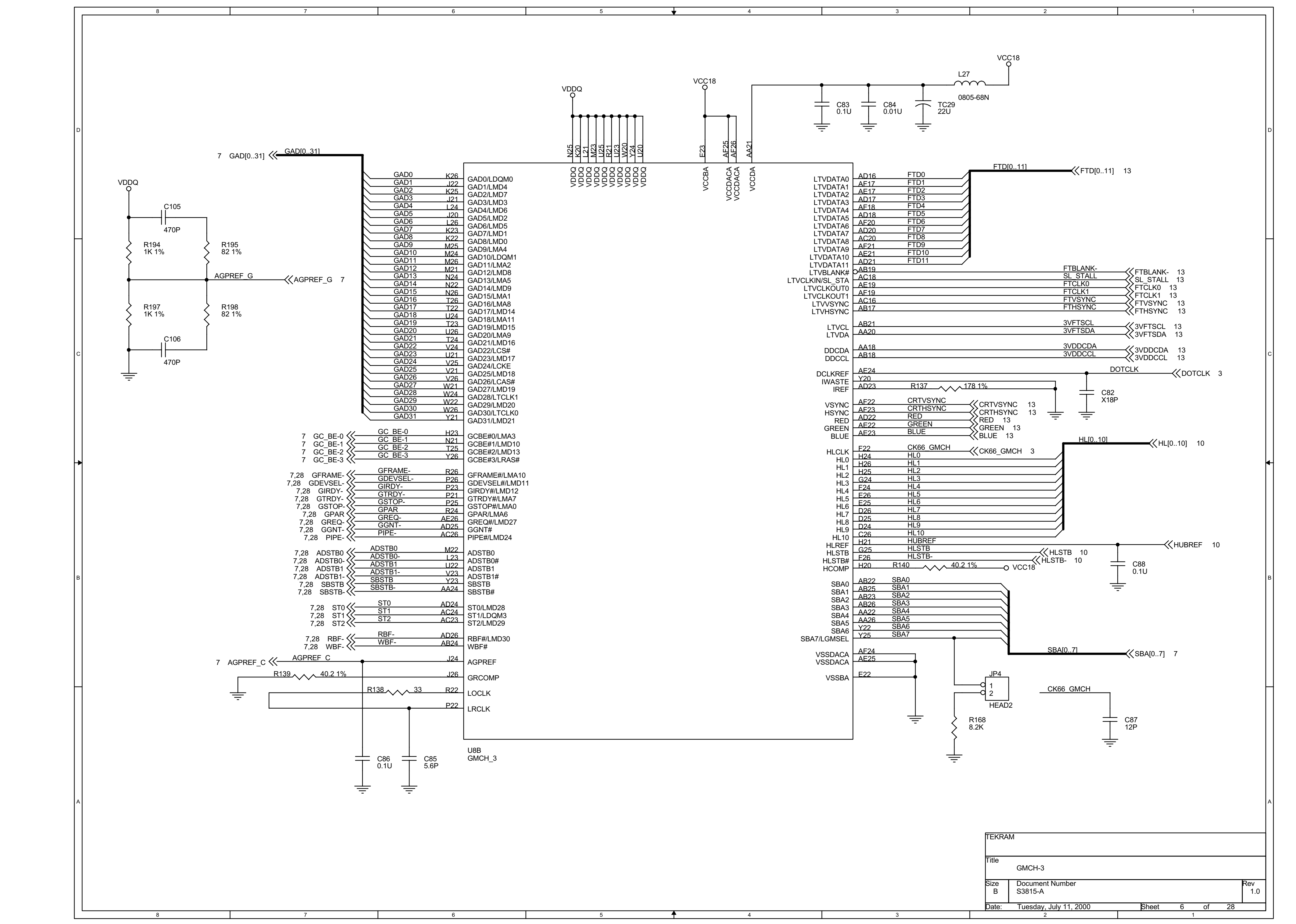

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L10
BEAD
VCC3G
BC20 0.1U
BC21 0.1U
BC22 0.1U
BC25 1U
BC23 0.1U
BC24 0.1U
BC16 0.1U
BC15 0.1U
BC14 0.1U
BC19 0.1U
TC12 22U
VCC25
L9
BEAD
BC17 0.1U
BC18 0.1U
BC13 1U
TC11 22U
U3
11 ICH_OSC
ICH_OSC
R48 33
FS4
REF0/FS4
VCC3
R44 10
CLK_X1
XTAL_IN
C26 18P
Y1 14.318M
C27 18P
CLK_X2
XTAL_OUT
R35 2.2K
R34 2.2K
2 APICCLK1
10 APICCLK2
R40 33
R39 33
IOAPIC
6 DOTCLK
11 USBCLK
17 SIOCLK
R38 10
R37 10
R36 10
FS3
FS2
48MHZ/FS3
24MHZ/FS2
7 AGPCLK
11 CK66_ICH
6 CK66_GMCH
R45 33
R46 33
R47 33
CLK66_0
CLK66_1
CLK66_2
3V66
13 CKSMBDA
13 CKSMBCK
SDATA
SCLK
26 CK_PWRDN
PD
C5 12P
C4 12P
ICS9250-25
CPUCLK0
CPUCLK1
CPUCK0
CPUCK1
R41 33
R42 33
CPUHCLK 2
GMCHCLK 4
SDRAM0 … SDRAM11
RN7 33X4S
RN8 33X4S
RN9 33X4S
DIMMCLK2 8
DIMMCLK3 8
DIMMCLK1 8
DIMMCLK0 8
DIMMCLK5 8
DIMMCLK6 8
DIMMCLK7 8
DIMMCLK4 8
DIMMCLK8 9
DIMMCLK9 9
DIMMCLK10 9
DIMMCLK11 9
SDRAM_F
R43 33
SCLK 5
FS0/PCICLK0
FS1/PCICLK1
PCICLK2 … PCICLK7
RN10 47X4S
RN11 47X4S
ICHPCLK 10
SIOPCLK 17
FWHPCLK 12
PCLK0 14
PCLK1 14
PCLK2 15
PCLK3 15
PCLK4 16
VCC3
R63 1K
R64 1K
2,5 133_100-
2,5 100_66-
RN41 10KX4S
FS4
FS3
FS2
FS1
R49 8.2K
FS0
C29 X10P
C33 X10P
C32 X10P
C31 X10P
C30 X10P
C12 X12P
C11 X12P
C34 X10P
C24 X10P
C23 X10P
C22 X10P
C21 X10P
C19 X10P
C18 X10P
C17 X10P
C16 X10P
C15 X10P
C14 X10P
C13 X10P
C25 X10P
C28 X10P
C6 X10P
C7 X10P
C8 X10P
C20 X12P
C9 X10P
C10 X10P
C36 X10P
C35 X10P
C39 X10P
C38 X10P
C37 X10P
TEKRAM
Title
CLOCK
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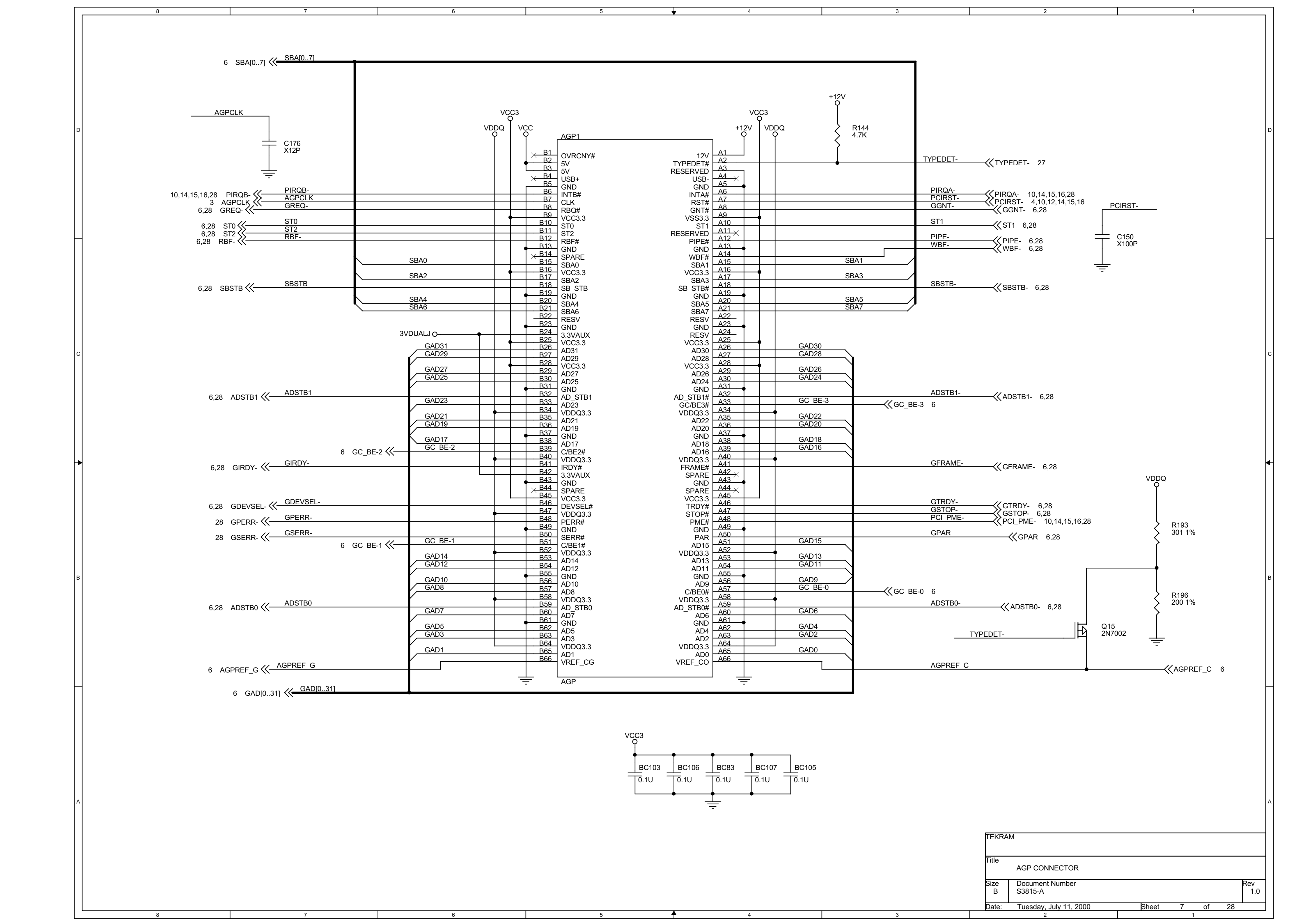
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R100
75 1%
R99
150 1%
C66
0.1U
C65
1000P
U6 GTLREFA
AA10 GTLREFB
3 GMCHCLK — GMCHCLK — AA7 HCLK
7,10,12,14,15,16 PCIRST- — PCIRST- — H3 RESET#
1,2 CPURST- — CPURST- — AA5 CPURST#
2 HLOCK- — HLOCK- — L4 HLOCK#
2 DEFER- — DEFER- — M3 DEFER#
2 ADS- — ADS- — G1 ADS#
1,2 BNR- — BNR- — N4 BNR#
2 BPRI- — BPRI- — M5 BPRI#
2 DBSY- — DBSY- — J3 DBSY#
2 DRDY- — DRDY- — J1 DRDY#
2 HIT- — HIT- — K1 HIT#
2 HITM- — HITM- — L3 HITM#
2 HTRDY- — HTRDY- — K3 HTRDY#
1 HA[3..31] — HA[3..31]
HA3 R4 HA3#
HA4 P1 HA4#
HA5 T2 HA5#
HA6 R3 HA6#
HA7 N5 HA7#
HA8 P5 HA8#
HA9 R1 HA9#
HA10 U1 HA10#
HA11 P2 HA11#
HA12 T1 HA12#
HA13 T3 HA13#
HA14 P3 HA14#
HA15 T5 HA15#
HA16 R5 HA16#
HA17 V5 HA17#
HA18 Y2 HA18#
HA19 V3 HA19#
HA20 W1 HA20#
HA21 U4 HA21#
HA22 V2 HA22#
HA23 W3 HA23#
HA24 W4 HA24#
HA25 U5 HA25#
HA26 Y5 HA26#
HA27 Y3 HA27#
HA28 U3 HA28#
HA29 Y1 HA29#
HA30 W5 HA30#
HA31 V1 HA31#
GMCHCLK
C70
5.6P
2 HREQ-0 — HREQ-0 — M1 HREQ0#
2 HREQ-1 — HREQ-1 — N1 HREQ1#
2 HREQ-2 — HREQ-2 — M2 HREQ2#
2 HREQ-3 — HREQ-3 — L5 HREQ3#
2 HREQ-4 — HREQ-4 — N3 HREQ4#
2 RS-0 — RS-0 — K2 RS0#
2 RS-1 — RS-1 — L1 RS1#
2 RS-2 — RS-2 — H1 RS2#
VCC18
W6 Y9 Y18 AA6 AA8 AA11 AA13 AA15 AA17 AA19 AB16 AB20 AC22 AD19 C25 E24 F23 G22 K6 M6 P6 T6 V7 G26 Y7
VCC18 VCC18
HD[0..63] — HD[0..63] 1
HD0# AA1 HD0
HD1# AB2 HD1
HD2# AF2 HD2
HD3# AD4 HD3
HD4# AB1 HD4
HD5# AB3 HD5
HD6# AA3 HD6
HD7# AC4 HD7
HD8# AC1 HD8
HD9# AF3 HD9
HD10# AD1 HD10
HD11# AE3 HD11
HD12# AD2 HD12
HD13# AD3 HD13
HD14# AF1 HD14
HD15# AA4 HD15
HD16# AD6 HD16
HD17# AC3 HD17
HD18# AE1 HD18
HD19# AB6 HD19
HD20# AF4 HD20
HD21# AE5 HD21
HD22# AC8 HD22
HD23# AB5 HD23
HD24# AF5 HD24
HD25# AC6 HD25
HD26# AF6 HD26
HD27# AD11 HD27
HD28# AF8 HD28
HD29# AD8 HD29
HD30# AD5 HD30
HD31# AB7 HD31
HD32# AF7 HD32
HD33# AD7 HD33
HD34# AB8 HD34
HD35# AE7 HD35
HD36# AE9 HD36
HD37# AB9 HD37
HD38# AF9 HD38
HD39# AD10 HD39
HD40# AF12 HD40
HD41# AB11 HD41
HD42# AB10 HD42
HD43# AD9 HD43
HD44# AC10 HD44
HD45# AF10 HD45
HD46# AD14 HD46
HD47# AD12 HD47
HD48# AB12 HD48
HD49# AE11 HD49
HD50# AE15 HD50
HD51# AF11 HD51
HD52# AF13 HD52
HD53# AB14 HD53
HD54# AF14 HD54
HD55# AB13 HD55
HD56# AB15 HD56
HD57# AE13 HD57
HD58# AC14 HD58
HD59# AD13 HD59
HD60# AD15 HD60
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HD62# AE15 HD62
HD63# AC12 HD63
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TEKRAM
Title
GMCH -1
Size B
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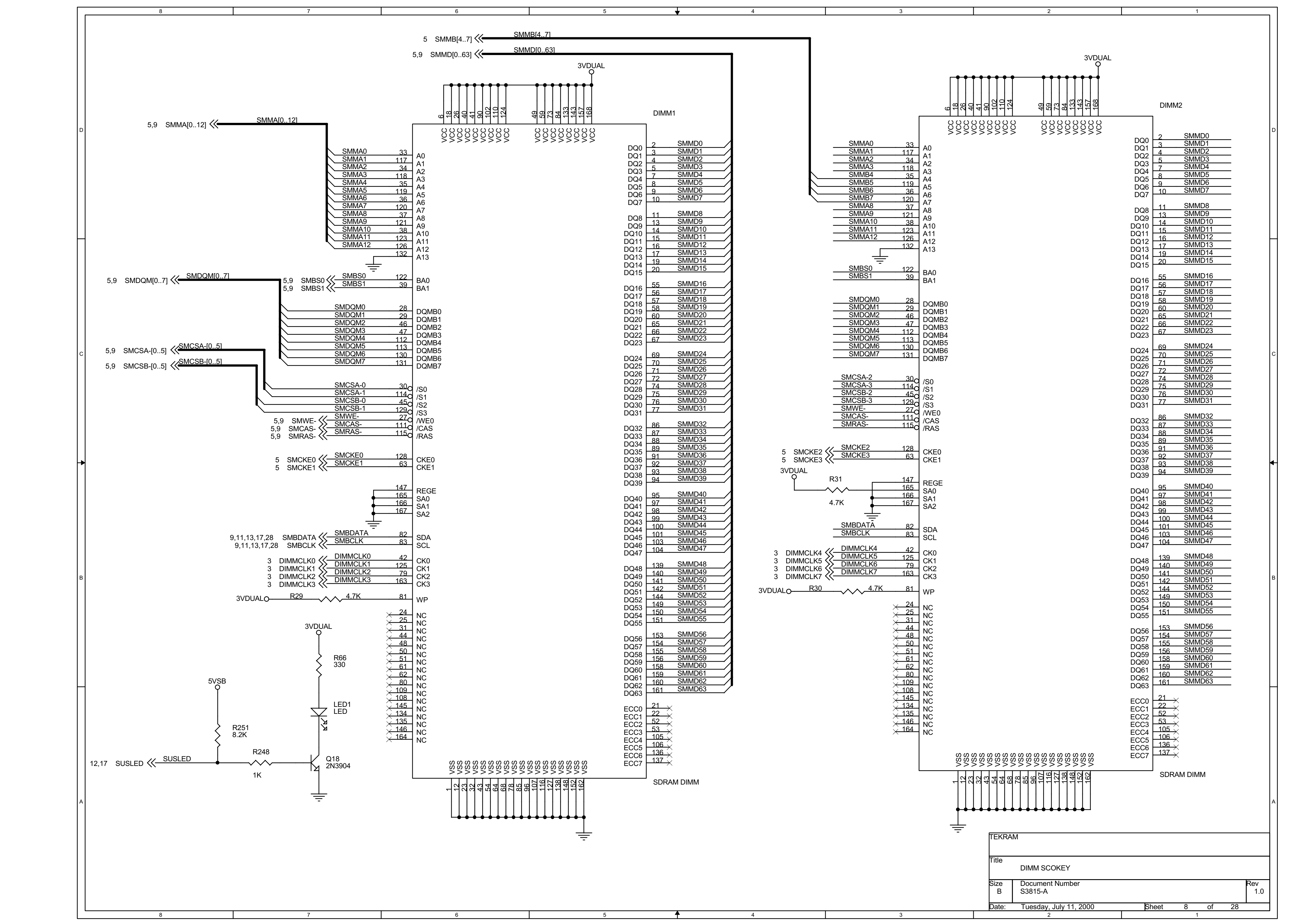


3VDUAL
VCC18
B2 B5 B8 B11 B14 B19 B22 B25 F2 F10 F14 F17 G6 G8 G19 H2 H5 H7
VSUS3
J7
VCCDPLL
8,9 SMMA[0..12]
SMMA[0..12]
8 SMMB[4..7]
SMMB[4..7]
9 SMMC[4..7]
SMMC[4..7]
SMMA0 D13 SMAA0
SMMA1 B16 SMAA1
SMMA2 F12 SMAA2
SMMA3 A16 SMAA3
SMMA4 B12 SMAA4
SMMA5 A12 SMAA5
SMMA6 C11 SMAA6
SMMA7 A11 SMAA7
SMMA8 D12 SMAA8
SMMA9 C13 SMAA9
SMMA10 E11 SMAA10
SMMA11 A13 SMAA11
SMMA12 B7 SMAA12
RN39
22X4S
SMMB4 RN40 B15 SMAB4#
SMMB5 A15 SMAB5#
SMMB6 C14 SMAB6#
SMMB7 A14 SMAB7#
22X4S
SMMC4 RN38 B10 SMAC4#
SMMC5 A10 SMAC5#
SMMC6 C10 SMAC6#
SMMC7 A9 SMAC7#
22X4S
8,9 SMDQM[0..7]
SMDQM[0..7]
SMDQM0 D16 SDQM0
SMDQM1 F15 SDQM1
SMDQM2 A7 SDQM2
SMDQM3 A6 SDQM3
SMDQM4 A18 SDQM4
SMDQM5 C17 SDQM5
SMDQM6 B6 SDQM6
SMDQM7 A5 SDQM7
8,9 SMCSA-[0..5]
SMCSA-[0..5]
8,9 SMBS0
8,9 SMBS1
SMBS0 B13 SBS0
SMBS1 D11 SBS1
SMCSA-0 D15 SCSA0#
SMCSA-1 A17 SCSA1#
SMCSA-2 D14 SCSA2#
SMCSA-3 E14 SCSA3#
SMCSA-4 E13 SCSA4#
SMCSA-5 B17 SCSA5#
8,9 SMCSB-[0..5]
SMCSB-[0..5]
SMCSB-0 F9 SCSB0#
SMCSB-1 F8 SCSB1#
SMCSB-2 D10 SCSB2#
SMCSB-3 D9 SCSB3#
SMCSB-4 B9 SCSB4#
SMCSB-5 A8 SCSB5#
8,9 SMRAS- SMRAS- C16 SRAS#
8,9 SMCAS- SMCAS- D18 SCAS#
8,9 SMWE- SMWE- E16 SWE#
8 SMCKE0 SMCKE0 D8 SCKE0
8 SMCKE1 SMCKE1 E8 SCKE1
8 SMCKE2 SMCKE2 E9 SCKE2
8 SMCKE3 SMCKE3 D7 SCKE3
9 SMCKE4 SMCKE4 C8 SCKE4
9 SMCKE5 SMCKE5 C7 SCKE5
3 SCLK SCLK F7 SCLK
G10 RESVD
C67 12P
3VDUAL R102 40.2 1% G7 SRCOMP
TRACE WIDTH >10MILS
SMMD[0..63]
SMMD[0..63] 8,9
SMD0 D23 SMMD0
SMD1 C23 SMMD1
SMD2 D22 SMMD2
SMD3 F21 SMMD3
SMD4 E21 SMMD4
SMD5 G20 SMMD5
SMD6 F20 SMMD6
SMD7 D20 SMMD7
SMD8 F19 SMMD8
SMD9 E19 SMMD9
SMD10 D19 SMMD10
SMD11 E18 SMMD11
SMD12 B18 SMMD12
SMD13 F18 SMMD13
SMD14 G18 SMMD14
SMD15 D17 SMMD15
SMD16 A3 SMMD16
SMD17 A1 SMMD17
SMD18 C1 SMMD18
SMD19 F2 SMMD19
SMD20 G3 SMMD20
SMD21 D6 SMMD21
SMD22 C5 SMMD22
SMD23 B4 SMMD23
SMD24 D4 SMMD24
SMD25 C2 SMMD25
SMD26 D3 SMMD26
SMD27 E4 SMMD27
SMD28 F5 SMMD28
SMD29 G4 SMMD29
SMD30 J6 SMMD30
SMD31 K5 SMMD31
SMD32 A26 SMMD32
SMD33 A25 SMMD33
SMD34 B24 SMMD34
SMD35 A24 SMMD35
SMD36 B23 SMMD36
SMD37 A23 SMMD37
SMD38 C22 SMMD38
SMD39 A22 SMMD39
SMD40 D21 SMMD40
SMD41 B21 SMMD41
SMD42 A21 SMMD42
SMD43 C20 SMMD43
SMD44 B20 SMMD44
SMD45 A20 SMMD45
SMD46 C19 SMMD46
SMD47 A19 SMMD47
SMD48 A4 SMMD48
SMD49 A2 SMMD49
SMD50 B1 SMMD50
SMD51 E1 SMMD51
SMD52 G2 SMMD52
SMD53 E6 SMMD53
SMD54 D5 SMMD54
SMD55 C4 SMMD55
SMD56 B3 SMMD56
SMD57 D2 SMMD57
SMD58 E3 SMMD58
SMD59 F4 SMMD59
SMD60 F6 SMMD60
SMD61 G5 SMMD61
SMD62 H4 SMMD62
SMD63 J4 SMMD63
VSSDPLL K7
U8A
GMCH_2
VCC3
R57 330
2 VCOREDET VCOREDET R58 8.2K SMMA9
2,3 133_100- 133_100- R60 8.2K SMCAS-
2,3 100_66- 100_66- R59 8.2K SMWE-
3VDUAL
BC11 0.1U
BC12 0.1U
BC10 0.1U
BC89 0.1U
BC90 0.1U
BC91 0.1U
BC92 0.1U
BC139 0.1U
BC140 0.1U
BC141 0.1U
BC142 0.1U
BC143 0.1U
BC144 0.1U
BC93 0.1U
BC94 0.1U
BC97 0.1U
BC98 0.1U
BC96 1U
BC95 1U
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GMCH-2
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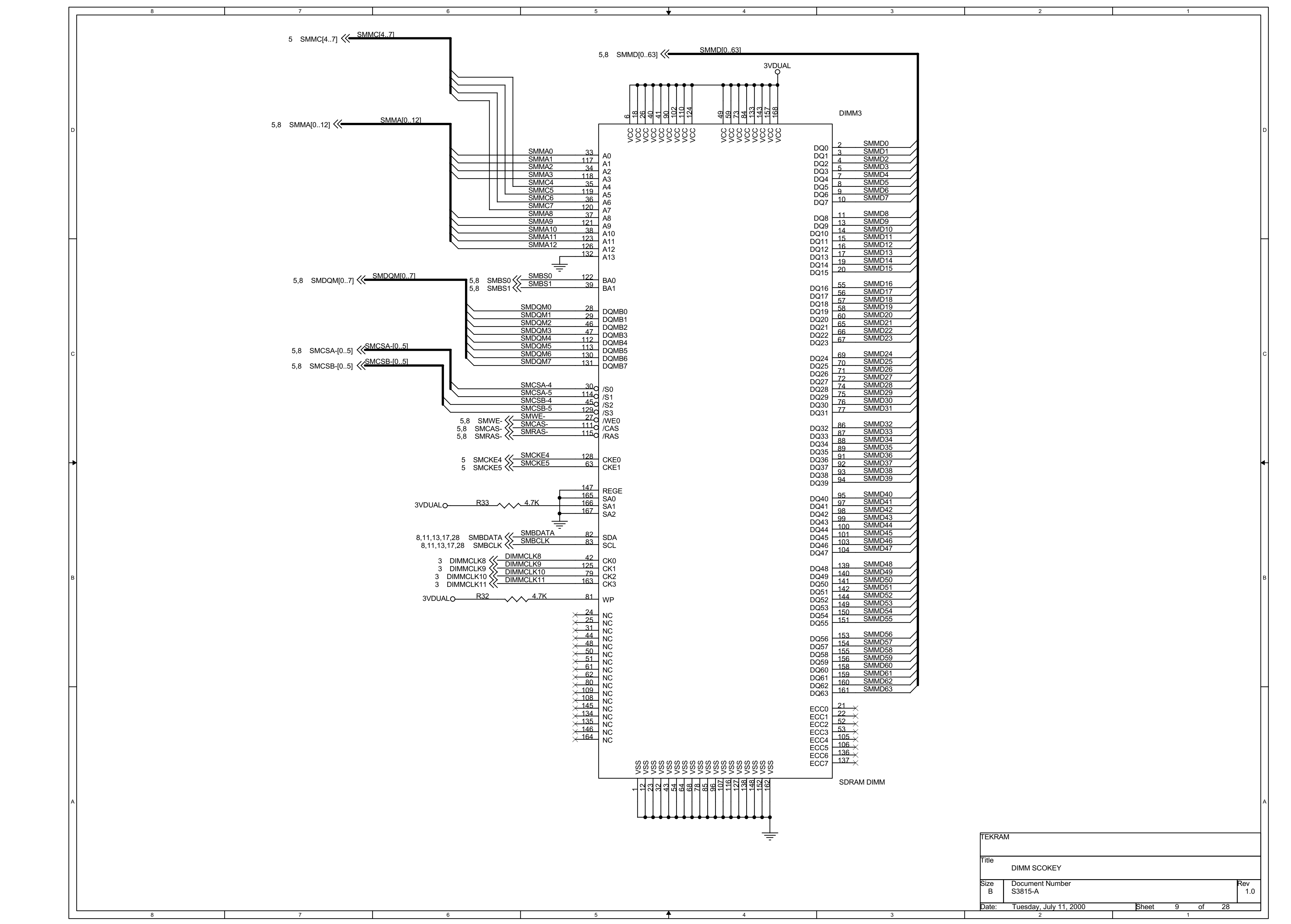


VDDQ
VCC18
VCC18
L27
0805-68N
C83
0.1U
C84
0.01U
TC29
22U
7 GAD[0..31]
GAD[0..31]
FTD[0..11]
FTD[0..11] 13
C105
470P
R194
1K 1%
R195
82 1%
AGPREF_G
AGPREF_G 7
R197
1K 1%
R198
82 1%
C106
470P
FTBLANK- 13
SL_STALL 13
FTCLK0 13
FTCLK1 13
FTVSYNC 13
FTHSYNC 13
3VFTSCL 13
3VFTSDA 13
3VDDCDA 13
3VDDCCL 13
DOTCLK
DOTCLK 3
R137
178 1%
C82
X18P
CRTVSYNC 13
CRTHSYNC 13
RED 13
GREEN 13
BLUE 13
7 GC_BE-0
7 GC_BE-1
7 GC_BE-2
7 GC_BE-3
HL[0..10]
HL[0..10] 10
CK66_GMCH 3
7,28 GFRAME-
7,28 GDEVSEL-
7,28 GIRDY-
7,28 GTRDY-
7,28 GSTOP-
7,28 GPAR
7,28 GREQ-
7,28 GGNT-
7,28 PIPE-
HUBREF 10
7,28 ADSTB0
7,28 ADSTB0-
7,28 ADSTB1
7,28 ADSTB1-
7,28 SBSTB
7,28 SBSTB-
HLSTB 10
HLSTB- 10
R140
40.2 1%
VCC18
C88
0.1U
7,28 ST0
7,28 ST1
7,28 ST2
7,28 RBF-
7,28 WBF-
SBA[0..7]
SBA[0..7] 7
7 AGPREF_C
AGPREF_C
R139
40.2 1%
R138
33
JP4
HEAD2
CK66_GMCH
C87
12P
R168
8.2K
C86
0.1U
C85
5.6P
U8B
GMCH_3
GAD0/LDQM0
GAD1/LMD4
GAD2/LMD7
GAD3/LMD3
GAD4/LMD6
GAD5/LMD2
GAD6/LMD5
GAD7/LMD1
GAD8/LMD0
GAD9/LMA4
GAD10/LDQM1
GAD11/LMA2
GAD12/LMD8
GAD13/LMA5
GAD14/LMD9
GAD15/LMA1
GAD16/LMA8
GAD17/LMD14
GAD18/LMA11
GAD19/LMD15
GAD20/LMA9
GAD21/LMD16
GAD22/LCS#
GAD23/LMD17
GAD24/LCKE
GAD25/LMD18
GAD26/LCAS#
GAD27/LMD19
GAD28/LTCLK1
GAD29/LMD20
GAD30/LTCLK0
GAD31/LMD21
GCBE#0/LMA3
GCBE#1/LMD10
GCBE#2/LMD13
GCBE#3/LRAS#
GFRAME#/LMA10
GDEVSEL#/LMD11
GIRDY#/LMD12
GTRDY#/LMA7
GSTOP#/LMA0
GPAR/LMA6
GREQ#/LMD27
GGNT#
PIPE#/LMD24
ADSTB0
ADSTB0#
ADSTB1
ADSTB1#
SBSTB
SBSTB#
ST0/LMD28
ST1/LDQM3
ST2/LMD29
RBF#/LMD30
WBF#
AGPREF
GRCOMP
LOCLK
LRCLK
VDDQ
VCCBA
VCCDACA
VCCDA
LTVDATA0
LTVDATA1
LTVDATA2
LTVDATA3
LTVDATA4
LTVDATA5
LTVDATA6
LTVDATA7
LTVDATA8
LTVDATA9
LTVDATA10
LTVDATA11
LTVBLANK#
LTVCLKIN/SL_STA
LTVCLKOUT0
LTVCLKOUT1
LTVVSYNC
LTVHSYNC
LTVCL
LTVDA
DDCDA
DDCCL
DCLKREF
IWASTE
IREF
VSYNC
HSYNC
RED
GREEN
BLUE
HLCLK
HL0
HL1
HL2
HL3
HL4
HL5
HL6
HL7
HL8
HL9
HL10
HLREF
HLSTB
HLSTB#
HCOMP
SBA0
SBA1
SBA2
SBA3
SBA4
SBA5
SBA6
SBA7/LGMSEL
VSSDACA
VSSDACA
VSSBA
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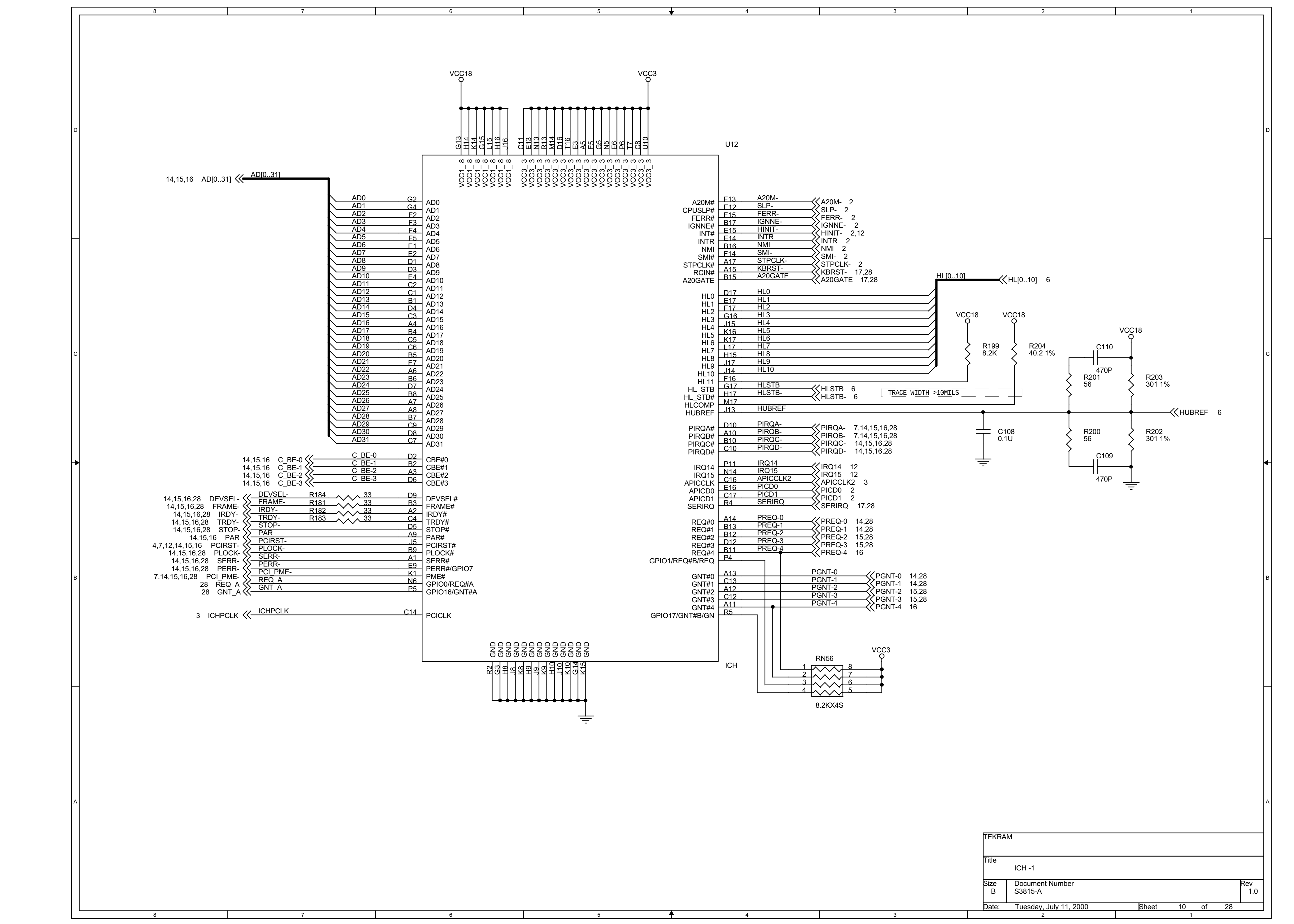

6 SBA[0..7]
SBA[0..7]
AGPCLK
C176
X12P
10,14,15,16,28 PIRQB-
PIRQB-
3 AGPCLK
AGPCLK
6,28 GREQ-
GREQ-
6,28 ST0
ST0
6,28 ST2
ST2
6,28 RBF-
RBF-
SBA0
SBA2
6,28 SBSTB
SBSTB
SBA4
SBA6
3VDUALJ
GAD31
GAD29
GAD27
GAD25
6,28 ADSTB1
ADSTB1
GAD23
GAD21
GAD19
GAD17
6 GC_BE-2
GC_BE-2
6,28 GIRDY-
GIRDY-
6,28 GDEVSEL-
GDEVSEL-
28 GPERR-
GPERR-
28 GSERR-
GSERR-
GC_BE-1
6 GC_BE-1
GAD14
GAD12
GAD10
GAD8
6,28 ADSTB0
ADSTB0
GAD7
GAD5
GAD3
GAD1
6 AGPREF_G
AGPREF_G
6 GAD[0..31]
GAD[0..31]
VCC3
VDDQ
VCC
AGP1
B1 OVRCNY#
B2 5V
B3 5V
B4 USB+
B5 GND
B6 INTB#
B7 CLK
B8 RBQ#
B9 VCC3.3
B10 ST0
B11 ST2
B12 RBF#
B13 GND
B14 SPARE
B15 SBA0
B16 VCC3.3
B17 SBA2
B18 SB_STB
B19 GND
B20 SBA4
B21 SBA6
B22 RESV
B23 GND
B24 3.3VAUX
B25 VCC3.3
B26 AD31
B27 AD29
B28 VCC3.3
B29 AD27
B30 AD25
B31 GND
B32 AD_STB1
B33 AD23
B34 VDDQ3.3
B35 AD21
B36 AD19
B37 GND
B38 AD17
B39 C/BE2#
B40 VDDQ3.3
B41 IRDY#
B42 3.3VAUX
B43 GND
B44 SPARE
B45 VCC3.3
B46 DEVSEL#
B47 VDDQ3.3
B48 PERR#
B49 GND
B50 SERR#
B51 C/BE1#
B52 VDDQ3.3
B53 AD14
B54 AD12
B55 GND
B56 AD10
B57 AD8
B58 VDDQ3.3
B59 AD_STB0
B60 AD7
B61 GND
B62 AD5
B63 AD3
B64 VDDQ3.3
B65 AD1
B66 VREF_CG
AGP
12V A1
TYPEDET# A2
RESERVED A3
USB- A4
GND A5
INTA# A6
RST# A7
GNT# A8
VSS3.3 A9
ST1 A10
RESERVED A11
PIPE# A12
GND A13
WBF# A14
SBA1 A15
VCC3.3 A16
SBA3 A17
SB_STB# A18
GND A19
SBA5 A20
SBA7 A21
RESV A22
GND A23
RESV A24
VCC3.3 A25
AD30 A26
AD28 A27
VCC3.3 A28
AD26 A29
AD24 A30
GND A31
AD_STB1# A32
GC/BE3# A33
VDDQ3.3 A34
AD22 A35
AD20 A36
GND A37
AD18 A38
AD16 A39
VDDQ3.3 A40
FRAME# A41
SPARE A42
GND A43
SPARE A44
VCC3.3 A45
TRDY# A46
STOP# A47
PME# A48
GND A49
PAR A50
AD15 A51
VDDQ3.3 A52
AD13 A53
AD11 A54
GND A55
AD9 A56
C/BE0# A57
VDDQ3.3 A58
AD_STB0# A59
AD6 A60
GND A61
AD4 A62
AD2 A63
VDDQ3.3 A64
AD0 A65
VREF_CO A66
+12V
VCC3
VDDQ
+12V
R144
4.7K
TYPEDET-
TYPEDET- 27
PIRQA-
PIRQA- 10,14,15,16,28
PCIRST-
PCIRST- 4,10,12,14,15,16
GGNT-
GGNT- 6,28
ST1
ST1 6,28
PIPE-
PIPE- 6,28
WBF-
WBF- 6,28
SBA1
SBA3
SBSTB-
SBSTB- 6,28
SBA5
SBA7
PCIRST-
C150
X100P
GAD30
GAD28
GAD26
GAD24
ADSTB1-
ADSTB1- 6,28
GC_BE-3
GC_BE-3 6
GAD22
GAD20
GAD18
GAD16
GFRAME-
GFRAME- 6,28
GTRDY-
GTRDY- 6,28
GSTOP-
GSTOP- 6,28
PCI_PME-
PCI_PME- 10,14,15,16,28
GPAR
GPAR 6,28
GAD15
GAD13
GAD11
GAD9
GC_BE-0
GC_BE-0 6
ADSTB0-
ADSTB0- 6,28
GAD6
GAD4
GAD2
GAD0
AGPREF_C
AGPREF_C 6
VDDQ
R193
301 1%
R196
200 1%
Q15
2N7002
TYPEDET-
VCC3
BC103 0.1U
BC106 0.1U
BC83 0.1U
BC107 0.1U
BC105 0.1U
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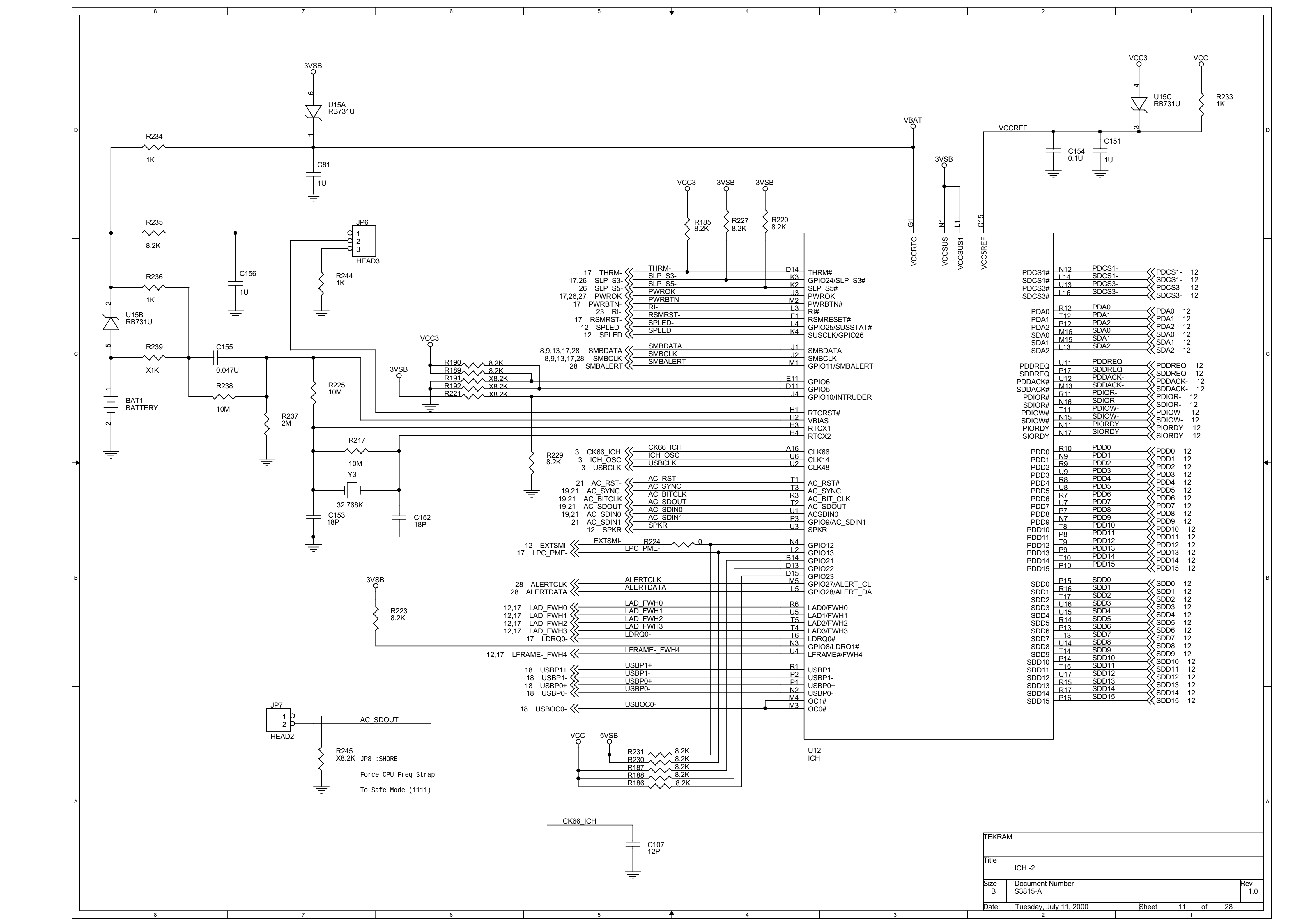
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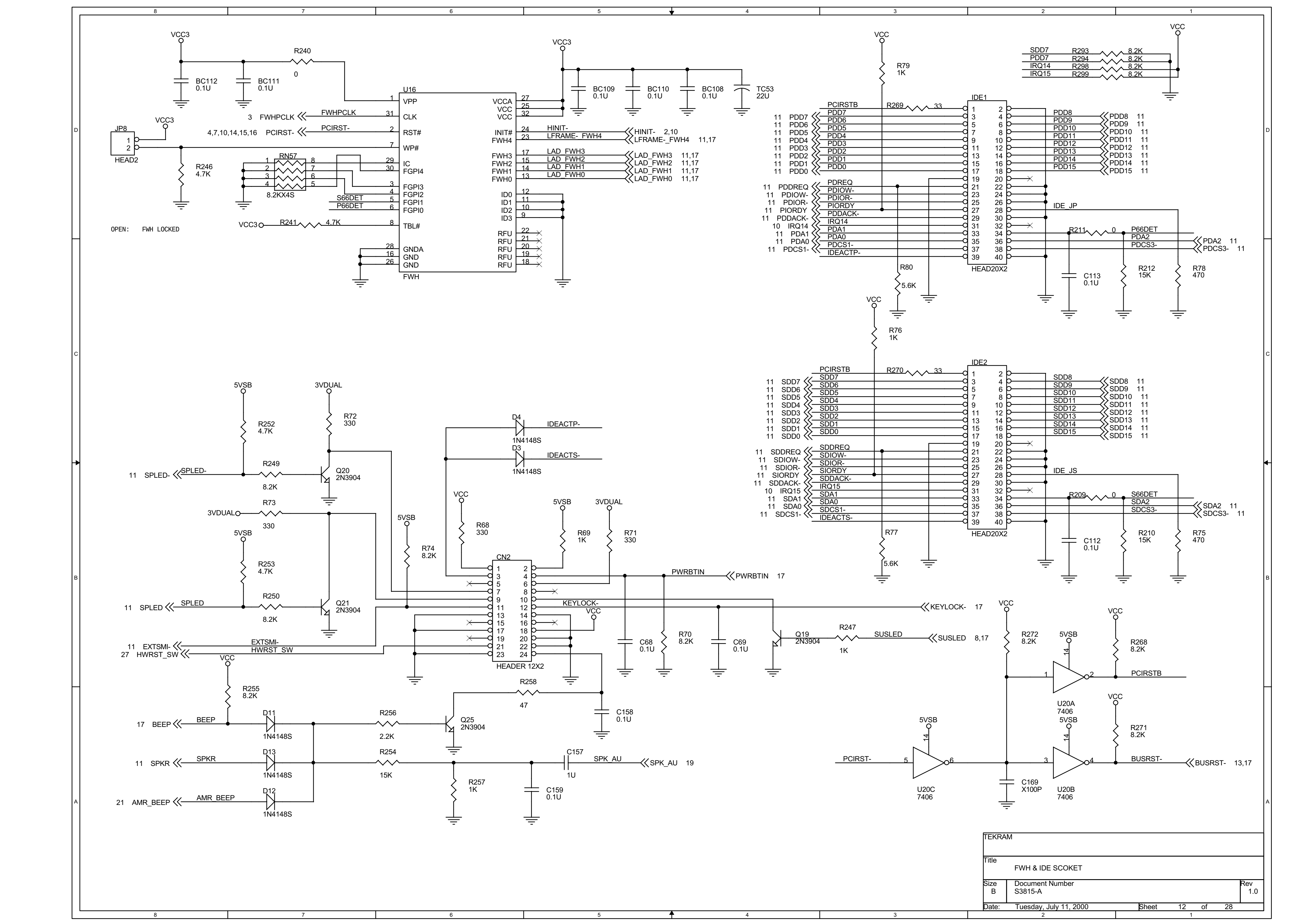
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SMMC[4..7]
5,8 SMMD[0..63]
SMMD[0..63]
3VDUAL
5,8 SMMA[0..12]
SMMA[0..12]
DIMM3
6 18 26 40 41 90 102 110 124
49 59 73 84 133 143 157 168
VCC
SMMA0 33 A0
SMMA1 117 A1
SMMA2 34 A2
SMMA3 118 A3
SMMC4 35 A4
SMMC5 119 A5
SMMC6 36 A6
SMMC7 120 A7
SMMA8 37 A8
SMMA9 121 A9
SMMA10 38 A10
SMMA11 123 A11
SMMA12 126 A12
132 A13
5,8 SMDQM[0..7]
SMDQM[0..7]
5,8 SMBS0 SMBS0 122 BA0
5,8 SMBS1 SMBS1 39 BA1
SMDQM0 28 DQMB0
SMDQM1 29 DQMB1
SMDQM2 46 DQMB2
SMDQM3 47 DQMB3
SMDQM4 112 DQMB4
SMDQM5 113 DQMB5
SMDQM6 130 DQMB6
SMDQM7 131 DQMB7
5,8 SMCSA-[0..5]
SMCSA-[0..5]
5,8 SMCSB-[0..5]
SMCSB-[0..5]
SMCSA-4 30 /S0
SMCSA-5 114 /S1
SMCSB-4 45 /S2
SMCSB-5 129 /S3
5,8 SMWE- SMWE- 27 /WE0
5,8 SMCAS- SMCAS- 111 /CAS
5,8 SMRAS- SMRAS- 115 /RAS
5 SMCKE4 SMCKE4 128 CKE0
5 SMCKE5 SMCKE5 63 CKE1
147 REGE
165 SA0
3VDUAL R33 4.7K 166 SA1
167 SA2
8,11,13,17,28 SMBDATA SMBDATA 82 SDA
8,11,13,17,28 SMBCLK SMBCLK 83 SCL
3 DIMMCLK8 DIMMCLK8 42 CK0
3 DIMMCLK9 DIMMCLK9 125 CK1
3 DIMMCLK10 DIMMCLK10 79 CK2
3 DIMMCLK11 DIMMCLK11 163 CK3
3VDUAL R32 4.7K 81 WP
24 25 31 44 48 50 51 61 62 80 109 108 145 134 135 146 164 NC
DQ0 2 SMMD0
DQ1 3 SMMD1
DQ2 4 SMMD2
DQ3 5 SMMD3
DQ4 7 SMMD4
DQ5 8 SMMD5
DQ6 9 SMMD6
DQ7 10 SMMD7
DQ8 11 SMMD8
DQ9 13 SMMD9
DQ10 14 SMMD10
DQ11 15 SMMD11
DQ12 16 SMMD12
DQ13 17 SMMD13
DQ14 19 SMMD14
DQ15 20 SMMD15
DQ16 55 SMMD16
DQ17 56 SMMD17
DQ18 57 SMMD18
DQ19 58 SMMD19
DQ20 60 SMMD20
DQ21 65 SMMD21
DQ22 66 SMMD22
DQ23 67 SMMD23
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DQ26 71 SMMD26
DQ27 72 SMMD27
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DQ29 75 SMMD29
DQ30 76 SMMD30
DQ31 77 SMMD31
DQ32 86 SMMD32
DQ33 87 SMMD33
DQ34 88 SMMD34
DQ35 89 SMMD35
DQ36 91 SMMD36
DQ37 92 SMMD37
DQ38 93 SMMD38
DQ39 94 SMMD39
DQ40 95 SMMD40
DQ41 97 SMMD41
DQ42 98 SMMD42
DQ43 99 SMMD43
DQ44 100 SMMD44
DQ45 101 SMMD45
DQ46 103 SMMD46
DQ47 104 SMMD47
DQ48 139 SMMD48
DQ49 140 SMMD49
DQ50 141 SMMD50
DQ51 142 SMMD51
DQ52 144 SMMD52
DQ53 149 SMMD53
DQ54 150 SMMD54
DQ55 151 SMMD55
DQ56 153 SMMD56
DQ57 154 SMMD57
DQ58 155 SMMD58
DQ59 156 SMMD59
DQ60 158 SMMD60
DQ61 159 SMMD61
DQ62 160 SMMD62
DQ63 161 SMMD63
ECC0 21
ECC1 22
ECC2 52
ECC3 53
ECC4 105
ECC5 106
ECC6 136
ECC7 137
VSS
1 12 23 32 43 54 64 68 78 85 96 107 116 127 138 148 152 162
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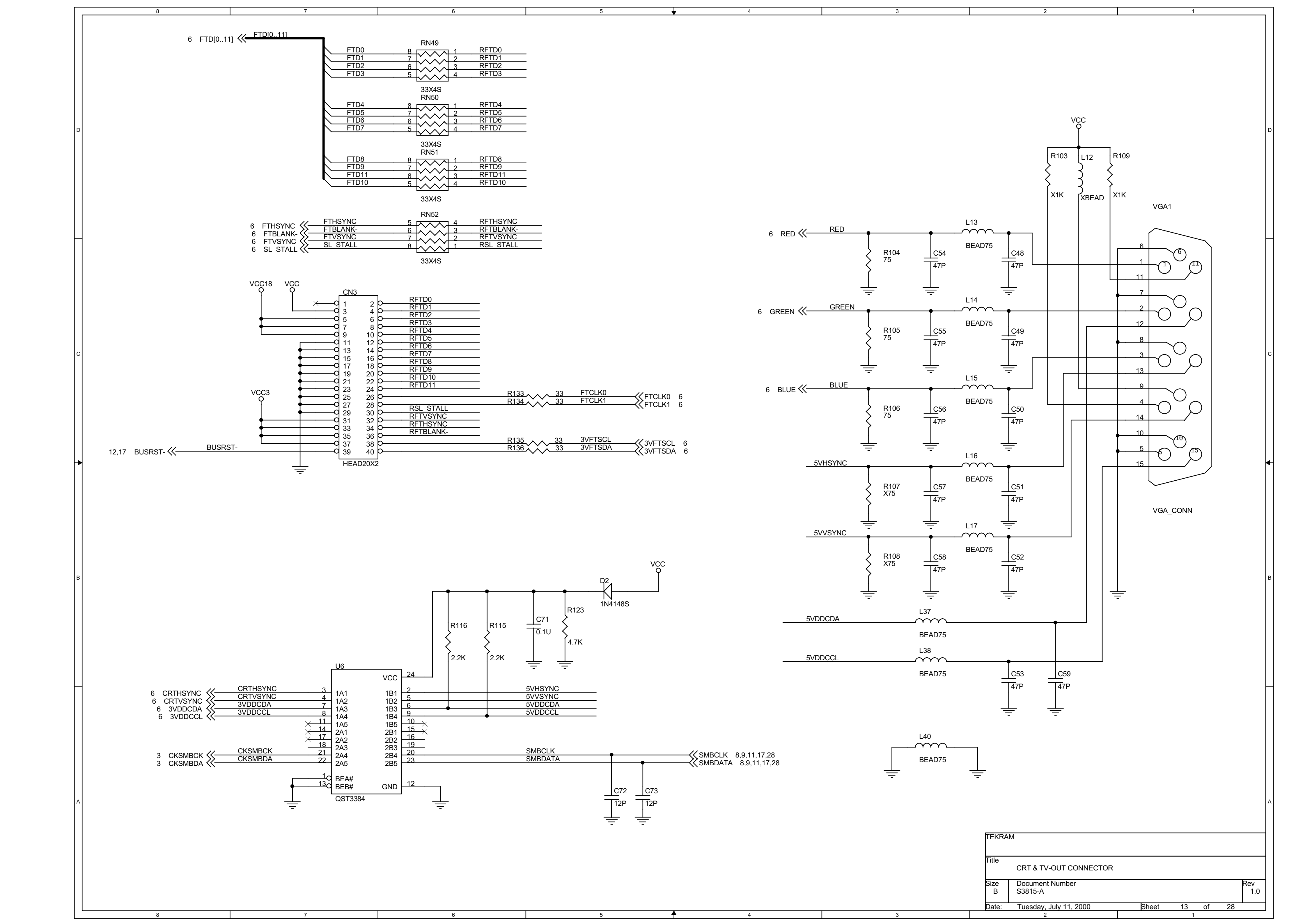
VCC18
VCC3
U12
ICH
14,15,16 AD[0..31]
AD[0..31]
AD0 G2 AD0
AD1 G4 AD1
AD2 F2 AD2
AD3 F3 AD3
AD4 F4 AD4
AD5 F5 AD5
AD6 E1 AD6
AD7 E2 AD7
AD8 D1 AD8
AD9 D3 AD9
AD10 E4 AD10
AD11 C2 AD11
AD12 C1 AD12
AD13 B1 AD13
AD14 D4 AD14
AD15 C3 AD15
AD16 A4 AD16
AD17 B4 AD17
AD18 C5 AD18
AD19 C6 AD19
AD20 B5 AD20
AD21 E7 AD21
AD22 A6 AD22
AD23 B6 AD23
AD24 D7 AD24
AD25 B8 AD25
AD26 A7 AD26
AD27 A8 AD27
AD28 B7 AD28
AD29 C9 AD29
AD30 D8 AD30
AD31 C7 AD31
14,15,16 C_BE-0 D2 CBE#0
14,15,16 C_BE-1 B2 CBE#1
14,15,16 C_BE-2 A3 CBE#2
14,15,16 C_BE-3 D6 CBE#3
14,15,16,28 DEVSEL- R184 33 D9 DEVSEL#
14,15,16,28 FRAME- R181 33 B3 FRAME#
14,15,16,28 IRDY- R182 33 A2 IRDY#
14,15,16,28 TRDY- R183 33 C4 TRDY#
14,15,16,28 STOP- D5 STOP#
14,15,16 PAR A9 PAR#
4,7,12,14,15,16 PCIRST- J5 PCIRST#
14,15,16,28 PLOCK- B9 PLOCK#
14,15,16,28 SERR- A1 SERR#
14,15,16,28 PERR- E9 PERR#/GPIO7
7,14,15,16,28 PCI_PME- K1 PME#
28 REQ_A N6 GPIO0/REQ#A
28 GNT_A P5 GPIO16/GNT#A
3 ICHPCLK C14 PCICLK
G13 H14 K14 G15 L15 H16 J16 VCC1_8
C11 F13 N13 R13 M14 D16 T16 E3 A5 E5 G5 N5 E6 P6 T7 C8 U10 VCC3_3
R2 G3 H8 J8 K8 H9 J9 K9 H10 J10 K10 G14 K15 GND
A20M# F13 A20M- A20M- 2
CPUSLP# E12 SLP- SLP- 2
FERR# F15 FERR- FERR- 2
IGNNE# B17 IGNNE- IGNNE- 2
INT# E15 HINIT- HINIT- 2,12
INTR E14 INTR INTR 2
NMI B16 NMI NMI 2
SMI# F14 SMI- SMI- 2
STPCLK# A17 STPCLK- STPCLK- 2
RCIN# A15 KBRST- KBRST- 17,28
A20GATE B15 A20GATE A20GATE 17,28
HL[0..10] HL[0..10] 6
HL0 D17 HL0
HL1 E17 HL1
HL2 F17 HL2
HL3 G16 HL3
HL4 J15 HL4
HL5 K16 HL5
HL6 K17 HL6
HL7 L17 HL7
HL8 H15 HL8
HL9 J17 HL9
HL10 J14 HL10
HL11 F16
HL_STB G17 HLSTB HLSTB 6
HL_STB# H17 HLSTB- HLSTB- 6
HLCOMP M17
HUBREF J13 HUBREF HUBREF 6
TRACE WIDTH >10MILS
R199 8.2K
R204 40.2 1%
C110 470P
R201 56
R203 301 1%
C108 0.1U
R200 56
R202 301 1%
C109 470P
PIRQA# D10 PIRQA- PIRQA- 7,14,15,16,28
PIRQB# A10 PIRQB- PIRQB- 7,14,15,16,28
PIRQC# B10 PIRQC- PIRQC- 14,15,16,28
PIRQD# C10 PIRQD- PIRQD- 14,15,16,28
IRQ14 P11 IRQ14 IRQ14 12
IRQ15 N14 IRQ15 IRQ15 12
APICCLK C16 APICCLK2 APICCLK2 3
APICD0 E16 PICD0 PICD0 2
APICD1 C17 PICD1 PICD1 2
SERIRQ R4 SERIRQ SERIRQ 17,28
REQ#0 A14 PREQ-0 PREQ-0 14,28
REQ#1 B13 PREQ-1 PREQ-1 14,28
REQ#2 B12 PREQ-2 PREQ-2 15,28
REQ#3 D12 PREQ-3 PREQ-3 15,28
REQ#4 B11 PREQ-4 PREQ-4 16
GPIO1/REQ#B/REQ P4
GNT#0 A13 PGNT-0 PGNT-0 14,28
GNT#1 C13 PGNT-1 PGNT-1 14,28
GNT#2 A12 PGNT-2 PGNT-2 15,28
GNT#3 C12 PGNT-3 PGNT-3 15,28
GNT#4 A11 PGNT-4 PGNT-4 16
GPIO17/GNT#B/GN R5
RN56 8.2KX4S
1 2 3 4 8 7 6 5
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3VSB
U15A
RB731U
R234
1K
C81
1U
VBAT
VCC3
VCC
U15C
RB731U
R233
1K
VCCREF
C154
0.1U
C151
1U
R235
8.2K
JP6
HEAD3
C156
1U
R244
1K
R236
1K
U15B
RB731U
R239
X1K
C155
0.047U
R238
10M
R237
2M
R225
10M
BAT1
BATTERY
R217
10M
Y3
32.768K
C153
18P
C152
18P
R185
8.2K
R227
8.2K
R220
8.2K
R190
R189
R191
R192
R221
R229
8.2K
VCCRTC
VCCSUS
VCCSUS1
VCC5REF
THRM-
SLP_S3-
SLP_S5-
PWROK
PWRBTN-
RI-
RSMRST-
SPLED-
SPLED
SMBDATA
SMBCLK
SMBALERT
THRM#
GPIO24/SLP_S3#
SLP_S5#
RSMRESET#
GPIO25/SUSSTAT#
SUSCLK/GPIO26
GPIO11/SMBALERT
GPIO6
GPIO5
GPIO10/INTRUDER
RTCRST#
VBIAS
RTCX1
RTCX2
CK66_ICH
ICH_OSC
USBCLK
CLK66
CLK14
CLK48
AC_RST-
AC_SYNC
AC_BITCLK
AC_SDOUT
AC_SDIN0
AC_SDIN1
SPKR
EXTSMI-
LPC_PME-
R224
ALERTCLK
ALERTDATA
GPIO27/ALERT_CL
GPIO28/ALERT_DA
LAD_FWH0
LAD_FWH1
LAD_FWH2
LAD_FWH3
LDRQ0-
LFRAME-_FWH4
USBP1+
USBP1-
USBP0+
USBP0-
USBOC0-
R223
8.2K
JP7
HEAD2
AC_SDOUT
R245
X8.2K
JP8 :SHORE
Force CPU Freq Strap
To Safe Mode (1111)
5VSB
R231
R230
R187
R188
R186
U12
ICH
PDCS1#
SDCS1#
PDCS3#
SDCS3#
PDA0
PDA1
PDA2
SDA0
SDA1
SDA2
PDDREQ
SDDREQ
PDDACK#
SDDACK#
PDIOR#
SDIOR#
PDIOW#
SDIOW#
PIORDY
SIORDY
PDD0 … PDD15
SDD0 … SDD15
CK66_ICH
C107
12P
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OPEN: FWH LOCKED
U16
FWH
IDE1
IDE2
HEAD20X2
CN2
HEADER 12X2
JP8
HEAD2
TEKRAM
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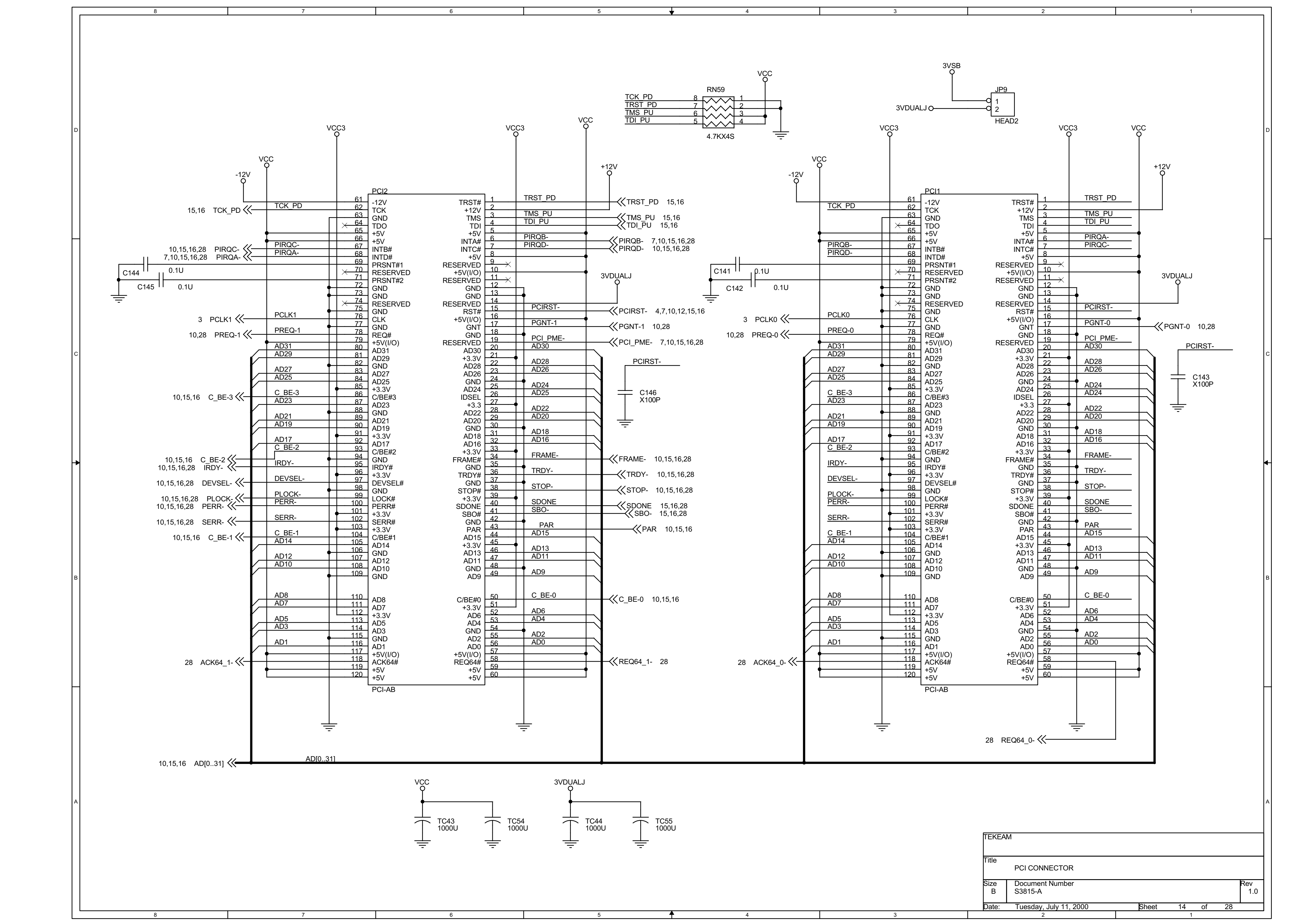


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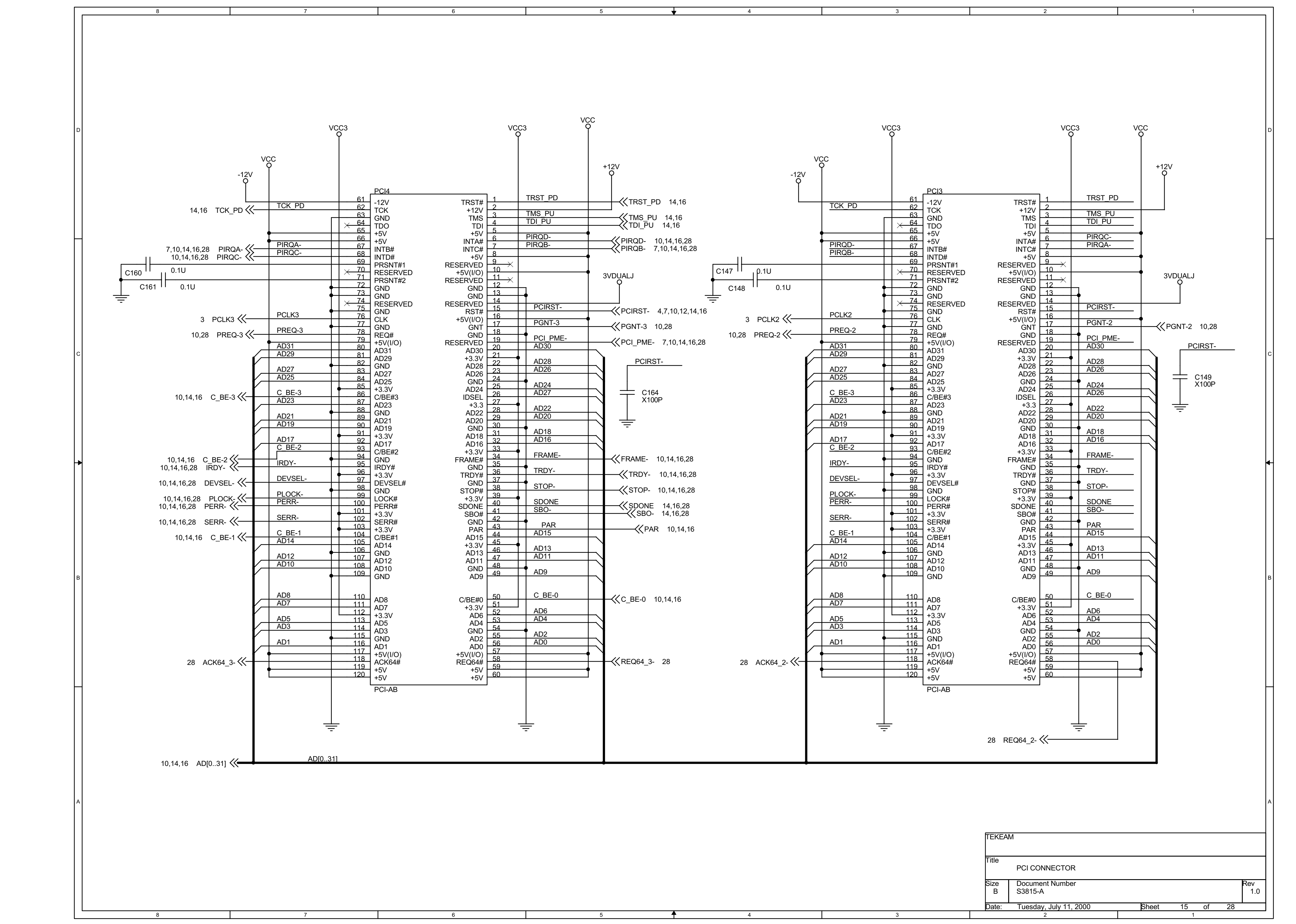
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RN59
4.7KX4S
TCK_PD
TRST_PD
TMS_PU
TDI_PU
VCC
3VSB
JP9
HEAD2
3VDUALJ
VCC3
-12V
+12V
PCI2
PCI-AB
PCI1
-12V TCK GND TDO +5V +5V INTB# INTD# PRSNT#1 RESERVED PRSNT#2 GND GND RESERVED GND CLK GND REQ# +5V(I/O) AD31 AD29 GND AD27 AD25 +3.3V C/BE#3 AD23 GND AD21 AD19 +3.3V AD17 C/BE#2 GND IRDY# +3.3V DEVSEL# GND LOCK# PERR# +3.3V SERR# +3.3V C/BE#1 AD14 GND AD12 AD10 GND AD8 AD7 +3.3V AD5 AD3 GND AD1 +5V(I/O) ACK64# +5V +5V
TRST# +12V TMS TDI +5V INTA# INTC# +5V RESERVED +5V(I/O) RESERVED GND GND RESERVED RST# +5V(I/O) GNT GND RESERVED AD30 +3.3V AD28 AD26 GND AD24 IDSEL +3.3 AD22 AD20 GND AD18 AD16 +3.3V FRAME# GND TRDY# GND STOP# +3.3V SDONE SBO# GND PAR AD15 +3.3V AD13 AD11 GND AD9 C/BE#0 +3.3V AD6 AD4 GND AD2 AD0 +5V(I/O) REQ64# +5V +5V
15,16 TCK_PD
10,15,16,28 PIRQC-
7,10,15,16,28 PIRQA-
C144 0.1U
C145 0.1U
3 PCLK1
10,28 PREQ-1
10,15,16 C_BE-3
10,15,16 C_BE-2
10,15,16,28 IRDY-
10,15,16,28 DEVSEL-
10,15,16,28 PLOCK-
10,15,16,28 PERR-
10,15,16,28 SERR-
10,15,16 C_BE-1
28 ACK64_1-
TRST_PD 15,16
TMS_PU 15,16
TDI_PU 15,16
PIRQB- 7,10,15,16,28
PIRQD- 10,15,16,28
PCIRST- 4,7,10,12,15,16
PGNT-1 10,28
PCI_PME- 7,10,15,16,28
C146 X100P
FRAME- 10,15,16,28
TRDY- 10,15,16,28
STOP- 10,15,16,28
SDONE 15,16,28
SBO- 15,16,28
PAR 10,15,16
C_BE-0 10,15,16
REQ64_1- 28
C141 0.1U
C142 0.1U
3 PCLK0
10,28 PREQ-0
PGNT-0 10,28
C143 X100P
28 ACK64_0-
28 REQ64_0-
10,15,16 AD[0..31]
AD[0..31]
TC43 1000U
TC54 1000U
TC44 1000U
TC55 1000U
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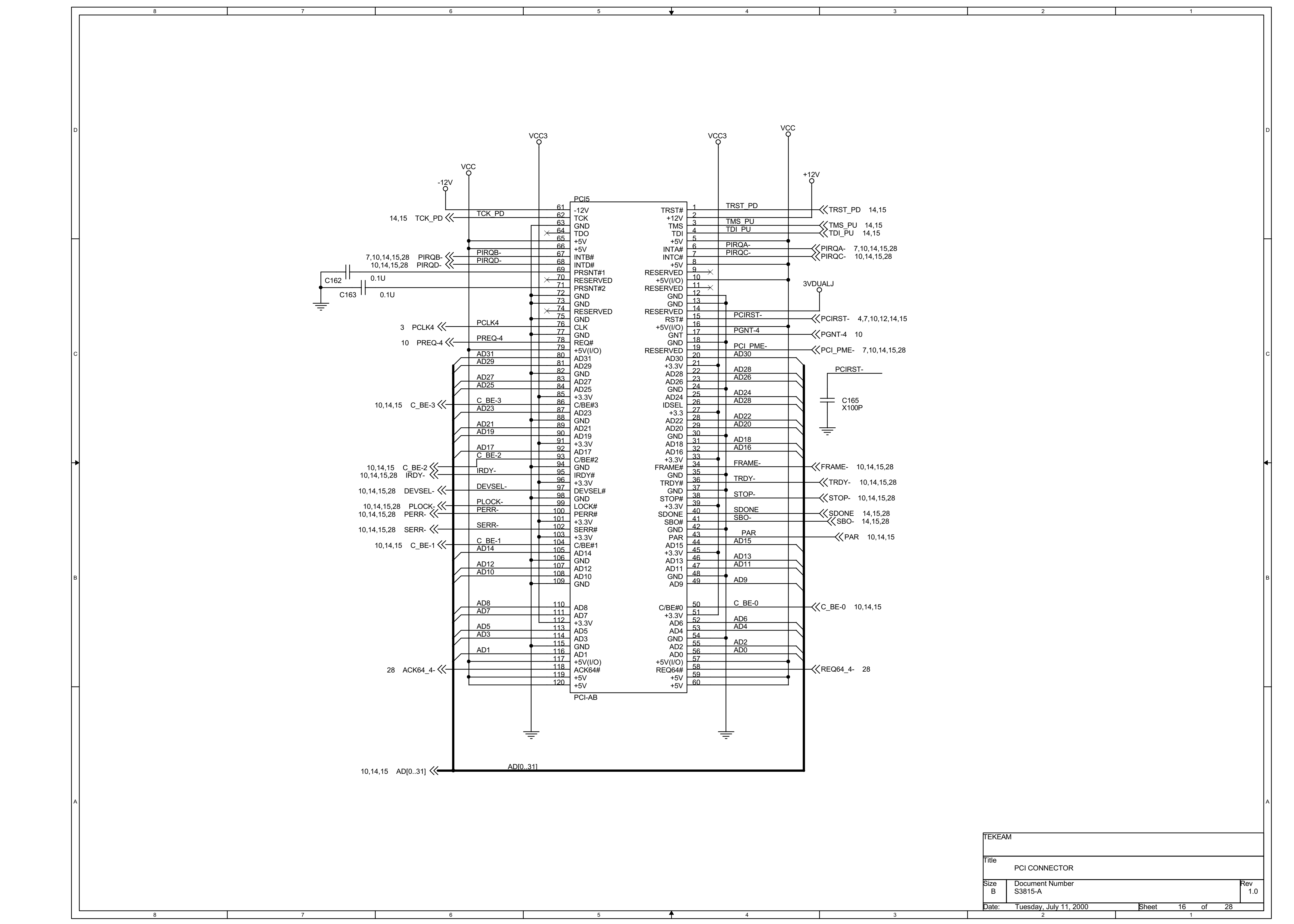


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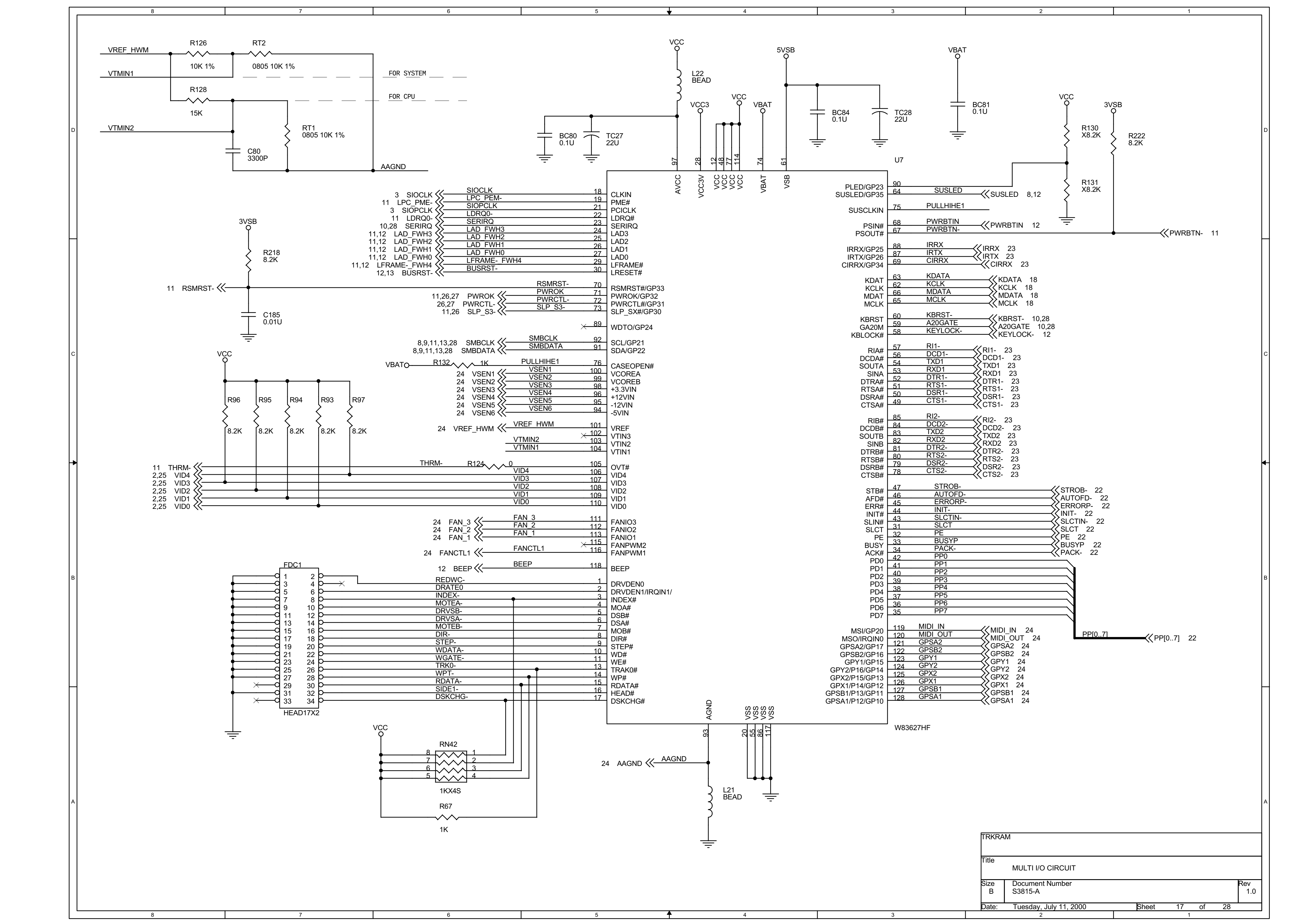
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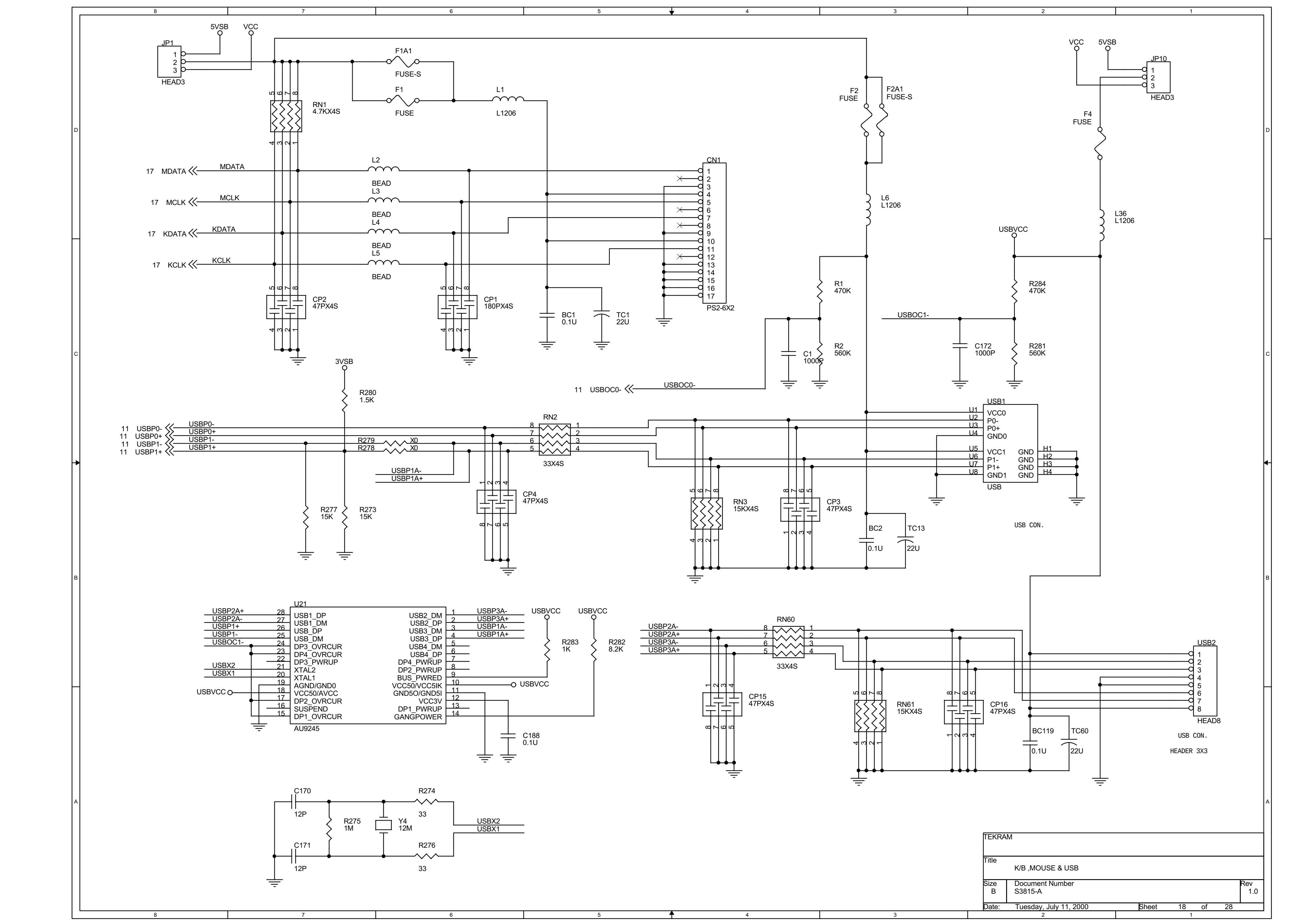
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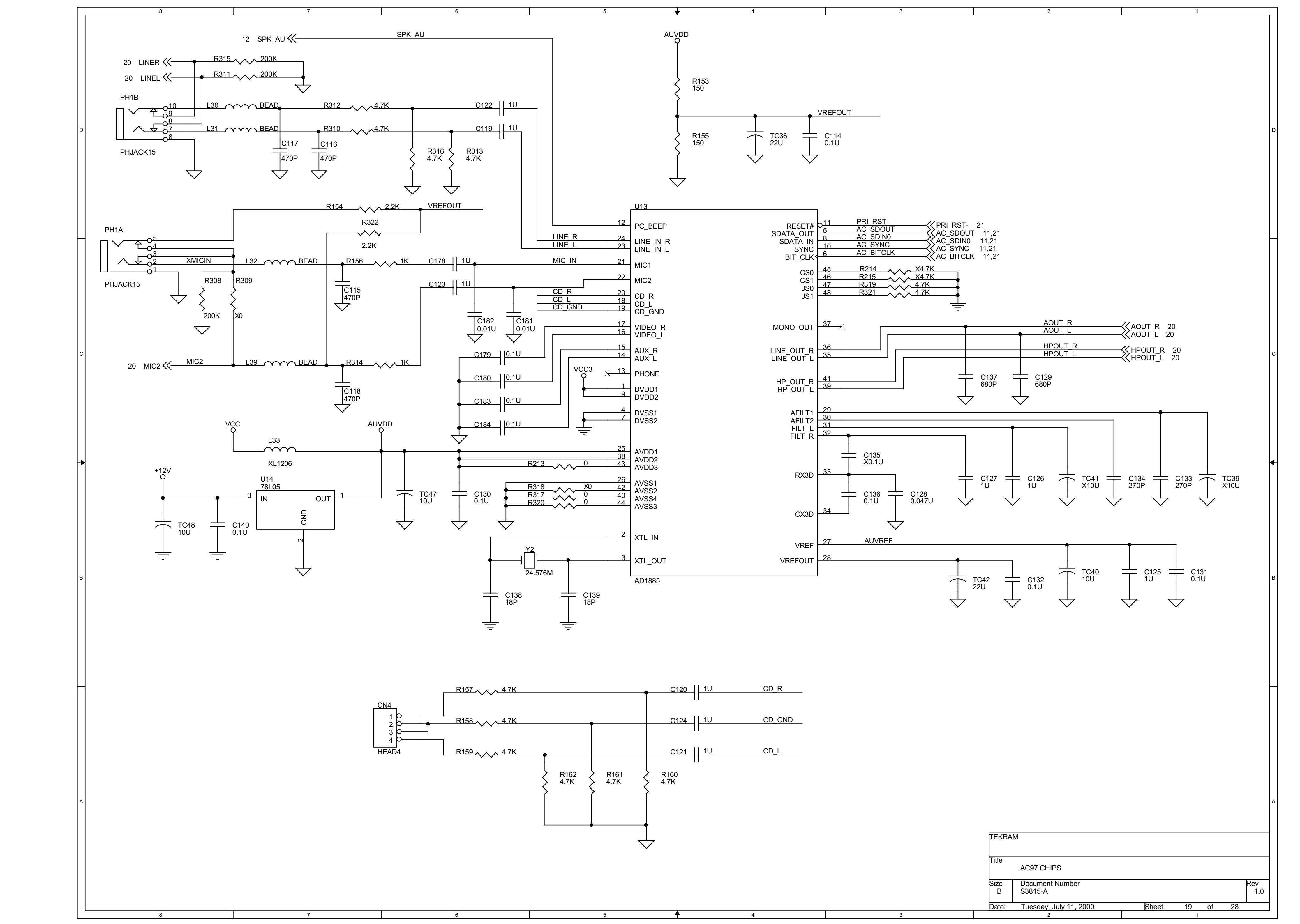


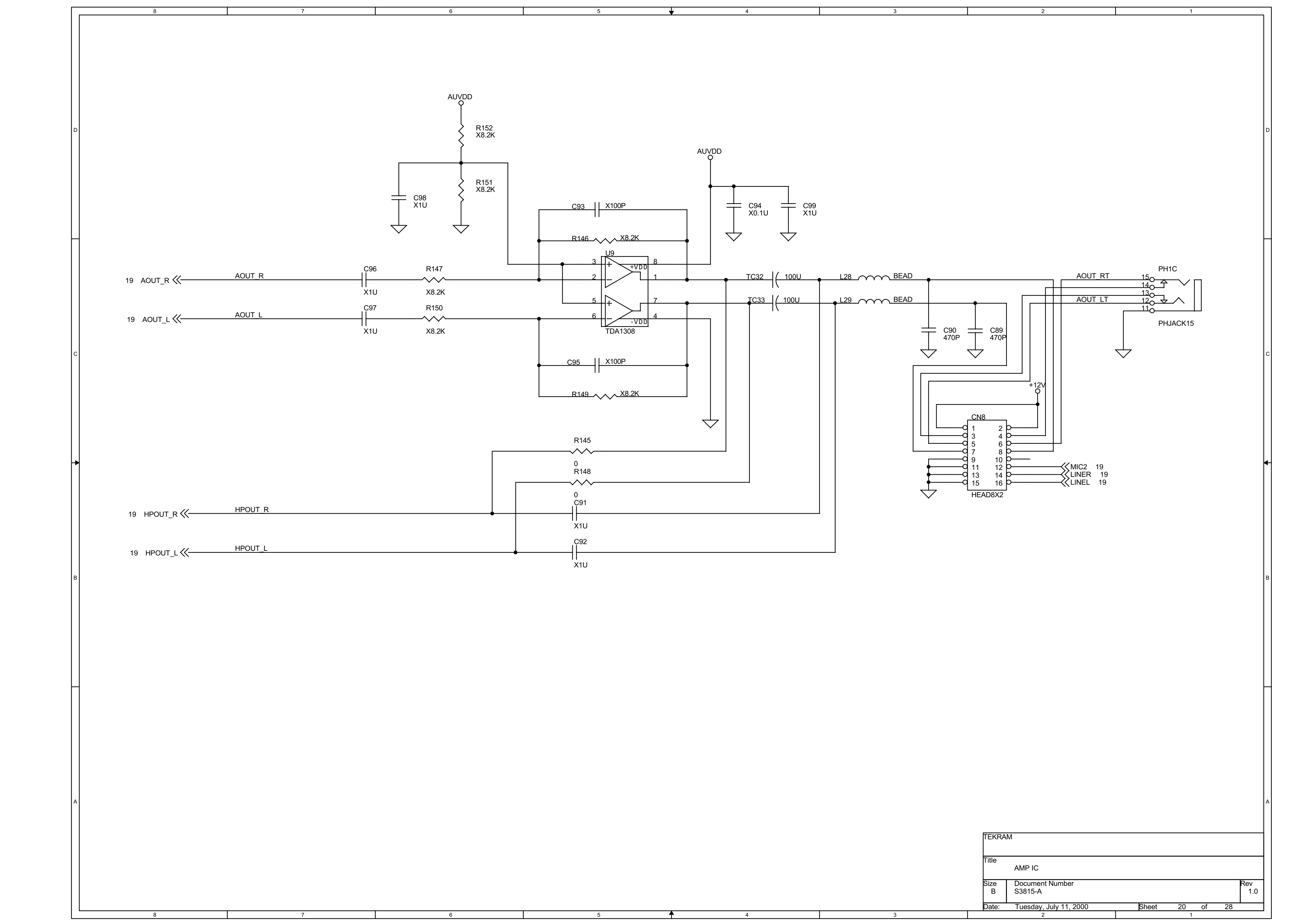
VCC3
VCC3
VCC
VCC
-12V
+12V
3VDUALJ
PCI5
PCI-AB
61 -12V
62 TCK
63 GND
64 TDO
65 +5V
66 +5V
67 INTB#
68 INTD#
69 PRSNT#1
70 RESERVED
71 PRSNT#2
72 GND
73 GND
74 RESERVED
75 GND
76 CLK
77 GND
78 REQ#
79 +5V(I/O)
80 AD31
81 AD29
82 GND
83 AD27
84 AD25
85 +3.3V
86 C/BE#3
87 AD23
88 GND
89 AD21
90 AD19
91 +3.3V
92 AD17
93 C/BE#2
94 GND
95 IRDY#
96 +3.3V
97 DEVSEL#
98 GND
99 LOCK#
100 PERR#
101 +3.3V
102 SERR#
103 +3.3V
104 C/BE#1
105 AD14
106 GND
107 AD12
108 AD10
109 GND
110 AD8
111 AD7
112 +3.3V
113 AD5
114 AD3
115 GND
116 AD1
117 +5V(I/O)
118 ACK64#
119 +5V
120 +5V
TRST# 1
+12V 2
TMS 3
TDI 4
+5V 5
INTA# 6
INTC# 7
+5V 8
RESERVED 9
+5V(I/O) 10
RESERVED 11
GND 12
GND 13
RESERVED 14
RST# 15
+5V(I/O) 16
GNT 17
GND 18
RESERVED 19
AD30 20
+3.3V 21
AD28 22
AD26 23
GND 24
AD24 25
IDSEL 26
+3.3 27
AD22 28
AD20 29
GND 30
AD18 31
AD16 32
+3.3V 33
FRAME# 34
GND 35
TRDY# 36
GND 37
STOP# 38
+3.3V 39
SDONE 40
SBO# 41
GND 42
PAR 43
AD15 44
+3.3V 45
AD13 46
AD11 47
GND 48
AD9 49
C/BE#0 50
+3.3V 51
AD6 52
AD4 53
GND 54
AD2 55
AD0 56
+5V(I/O) 57
REQ64# 58
+5V 59
+5V 60
14,15 TCK_PD
TCK_PD
7,10,14,15,28 PIRQB-
10,14,15,28 PIRQD-
PIRQB-
PIRQD-
C162 0.1U
C163 0.1U
3 PCLK4
PCLK4
10 PREQ-4
PREQ-4
AD31
AD29
AD27
AD25
10,14,15 C_BE-3
C_BE-3
AD23
AD21
AD19
AD17
C_BE-2
10,14,15 C_BE-2
10,14,15,28 IRDY-
IRDY-
10,14,15,28 DEVSEL-
DEVSEL-
10,14,15,28 PLOCK-
PLOCK-
10,14,15,28 PERR-
PERR-
10,14,15,28 SERR-
SERR-
10,14,15 C_BE-1
C_BE-1
AD14
AD12
AD10
AD8
AD7
AD5
AD3
AD1
28 ACK64_4-
10,14,15 AD[0..31]
AD[0..31]
TRST_PD
TRST_PD 14,15
TMS_PU
TMS_PU 14,15
TDI_PU
TDI_PU 14,15
PIRQA-
PIRQA- 7,10,14,15,28
PIRQC-
PIRQC- 10,14,15,28
PCIRST-
PCIRST- 4,7,10,12,14,15
PGNT-4
PGNT-4 10
PCI_PME-
PCI_PME- 7,10,14,15,28
AD30
AD28
AD26
AD24
AD28
AD22
AD20
AD18
AD16
PCIRST-
C165
X100P
FRAME-
FRAME- 10,14,15,28
TRDY-
TRDY- 10,14,15,28
STOP-
STOP- 10,14,15,28
SDONE
SDONE 14,15,28
SBO-
SBO- 14,15,28
PAR
PAR 10,14,15
AD15
AD13
AD11
AD9
C_BE-0
C_BE-0 10,14,15
AD6
AD4
AD2
AD0
REQ64_4- 28
TEKEAM
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VREF_HWM
VTMIN1
VTMIN2
R126 10K 1%
RT2 0805 10K 1%
R128 15K
RT1 0805 10K 1%
C80 3300P
FOR SYSTEM
FOR CPU
AAGND
VCC
L22 BEAD
BC80 0.1U
TC27 22U
VCC3
VBAT
5VSB
BC84 0.1U
TC28 22U
BC81 0.1U
VCC
3VSB
R130 X8.2K
R131 X8.2K
R222 8.2K
U7
W83627HF
AVCC VCC3V VCC VCC VCC VCC VBAT VSB
97 28 12 48 77 114 74 61
3 SIOCLK
11 LPC_PME-
3 SIOPCLK
11 LDRQ0-
10,28 SERIRQ
11,12 LAD_FWH3
11,12 LAD_FWH2
11,12 LAD_FWH1
11,12 LAD_FWH0
11,12 LFRAME-_FWH4
12,13 BUSRST-
SIOCLK 18 CLKIN
LPC_PEM- 19 PME#
SIOPCLK 21 PCICLK
LDRQ0- 22 LDRQ#
SERIRQ 23 SERIRQ
LAD_FWH3 24 LAD3
LAD_FWH2 25 LAD2
LAD_FWH1 26 LAD1
LAD_FWH0 27 LAD0
LFRAME-_FWH4 29 LFRAME#
BUSRST- 30 LRESET#
3VSB
R218 8.2K
11 RSMRST-
C185 0.01U
RSMRST- 70 RSMRST#/GP33
11,26,27 PWROK 71 PWROK/GP32
26,27 PWRCTL- 72 PWRCTL#/GP31
11,26 SLP_S3- 73 SLP_SX#/GP30
89 WDTO/GP24
8,9,11,13,28 SMBCLK 92 SCL/GP21
8,9,11,13,28 SMBDATA 91 SDA/GP22
VBAT R132 1K PULLHIHE1 76 CASEOPEN#
24 VSEN1 100 VCOREA
24 VSEN2 99 VCOREB
24 VSEN3 98 +3.3VIN
24 VSEN4 96 +12VIN
24 VSEN5 95 -12VIN
24 VSEN6 94 -5VIN
24 VREF_HWM 101 VREF
102 VTIN3
VTMIN2 103 VTIN2
VTMIN1 104 VTIN1
VCC
R96 R95 R94 R93 R97
8.2K 8.2K 8.2K 8.2K 8.2K
11 THRM- R124 0 105 OVT#
2,25 VID4 106 VID4
2,25 VID3 107 VID3
2,25 VID2 108 VID2
2,25 VID1 109 VID1
2,25 VID0 110 VID0
24 FAN_3 111 FANIO3
24 FAN_2 112 FANIO2
24 FAN_1 113 FANIO1
115 FANPWM2
24 FANCTL1 116 FANPWM1
12 BEEP 118 BEEP
FDC1
HEAD17X2
REDWC- 1 DRVDEN0
DRATE0 2 DRVDEN1/IRQIN1/
INDEX- 3 INDEX#
MOTEA- 4 MOA#
DRVSB- 5 DSB#
DRVSA- 6 DSA#
MOTEB- 7 MOB#
DIR- 8 DIR#
STEP- 9 STEP#
WDATA- 10 WD#
WGATE- 11 WE#
TRK0- 13 TRAK0#
WPT- 14 WP#
RDATA- 15 RDATA#
SIDE1- 16 HEAD#
DSKCHG- 17 DSKCHG#
VCC
RN42 1KX4S
R67 1K
AGND 93
VSS VSS VSS VSS 20 55 86 117
24 AAGND
L21 BEAD
PLED/GP23 90
SUSLED/GP35 64 SUSLED 8,12
SUSCLKIN 75 PULLHIHE1
PSIN# 68 PWRBTIN 12
PSOUT# 67 PWRBTN- 11
IRRX/GP25 88 IRRX 23
IRTX/GP26 87 IRTX 23
CIRRX/GP34 69 CIRRX 23
KDAT 63 KDATA 18
KCLK 62 KCLK 18
MDAT 66 MDATA 18
MCLK 65 MCLK 18
KBRST 60 KBRST- 10,28
GA20M 59 A20GATE 10,28
KBLOCK# 58 KEYLOCK- 12
RIA# 57 RI1- 23
DCDA# 56 DCD1- 23
SOUTA 54 TXD1 23
SINA 53 RXD1 23
DTRA# 52 DTR1- 23
RTSA# 51 RTS1- 23
DSRA# 50 DSR1- 23
CTSA# 49 CTS1- 23
RIB# 85 RI2- 23
DCDB# 84 DCD2- 23
SOUTB 83 TXD2 23
SINB 82 RXD2 23
DTRB# 81 DTR2- 23
RTSB# 80 RTS2- 23
DSRB# 79 DSR2- 23
CTSB# 78 CTS2- 23
STB# 47 STROB- 22
AFD# 46 AUTOFD- 22
ERR# 45 ERRORP- 22
INIT# 44 INIT- 22
SLIN# 43 SLCTIN- 22
SLCT 31 SLCT 22
PE 32 PE 22
BUSY 33 BUSYP 22
ACK# 34 PACK- 22
PD0 42 PP0
PD1 41 PP1
PD2 40 PP2
PD3 39 PP3
PD4 38 PP4
PD5 37 PP5
PD6 36 PP6
PD7 35 PP7
PP[0..7] 22
MSI/GP20 119 MIDI_IN 24
MSO/IRQIN0 120 MIDI_OUT 24
GPSA2/GP17 121 GPSA2 24
GPSB2/GP16 122 GPSB2 24
GPY1/GP15 123 GPY1 24
GPY2/P16/GP14 124 GPY2 24
GPX2/P15/GP13 125 GPX2 24
GPX1/P14/GP12 126 GPX1 24
GPSB1/P13/GP11 127 GPSB1 24
GPSA1/P12/GP10 128 GPSA1 24
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MULTI I/O CIRCUIT
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5VSB
VCC
JP1
1
2
3
HEAD3
F1A1
FUSE-S
F1
FUSE
L1
L1206
RN1
4.7KX4S
17 MDATA
MDATA
L2
BEAD
17 MCLK
MCLK
L3
BEAD
17 KDATA
KDATA
L4
BEAD
17 KCLK
KCLK
L5
BEAD
CN1
PS2-6X2
CP2
47PX4S
CP1
180PX4S
BC1
0.1U
TC1
22U
F2
FUSE
F2A1
FUSE-S
L6
L1206
R1
470K
R2
560K
C1
1000P
11 USBOC0-
USBOC0-
VCC
5VSB
JP10
HEAD3
F4
FUSE
L36
L1206
USBVCC
R284
470K
USBOC1-
C172
1000P
R281
560K
3VSB
R280
1.5K
11 USBP0-
11 USBP0+
11 USBP1-
11 USBP1+
USBP0-
USBP0+
USBP1-
USBP1+
R279
X0
R278
X0
USBP1A-
USBP1A+
RN2
33X4S
CP4
47PX4S
R277
15K
R273
15K
RN3
15KX4S
CP3
47PX4S
BC2
0.1U
TC13
22U
USB1
U1 VCC0
U2 P0-
U3 P0+
U4 GND0
U5 VCC1
U6 P1-
U7 P1+
U8 GND1
GND H1
GND H2
GND H3
GND H4
USB
USB CON.
U21
USBP2A+ 28 USB1_DP
USBP2A- 27 USB1_DM
USBP1+ 26 USB_DP
USBP1- 25 USB_DM
USBOC1- 24 DP3_OVRCUR
23 DP4_OVRCUR
22 DP3_PWRUP
USBX2 21 XTAL2
USBX1 20 XTAL1
19 AGND/GND0
USBVCC 18 VCC50/AVCC
17 DP2_OVRCUR
16 SUSPEND
15 DP1_OVRCUR
AU9245
USB2_DM 1 USBP3A-
USB2_DP 2 USBP3A+
USB3_DM 3 USBP1A-
USB3_DP 4 USBP1A+
USB4_DM 5
USB4_DP 6
DP4_PWRUP 7
DP2_PWRUP 8
BUS_PWRED 9
VCC50/VCC5IK 10 USBVCC
GND5O/GND5I 11
VCC3V 12
DP1_PWRUP 13
GANGPOWER 14
USBVCC
R283
1K
USBVCC
R282
8.2K
C188
0.1U
USBP2A-
USBP2A+
USBP3A-
USBP3A+
RN60
33X4S
CP15
47PX4S
RN61
15KX4S
CP16
47PX4S
BC119
0.1U
TC60
22U
USB2
HEAD8
USB CON.
HEADER 3X3
C170
12P
R275
1M
Y4
12M
R274
33
USBX2
USBX1
C171
12P
R276
33
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12 SPK_AU
SPK_AU
20 LINER
20 LINEL
R315 200K
R311 200K
PH1B
L30 BEAD
L31 BEAD
R312 4.7K
R310 4.7K
C122 1U
C119 1U
C117 470P
C116 470P
R316 4.7K
R313 4.7K
PHJACK15
AUVDD
R153 150
R155 150
TC36 22U
C114 0.1U
VREFOUT
R154 2.2K
R322 2.2K
PH1A
XMICIN
L32 BEAD
R156 1K
C178 1U
MIC_IN
C115 470P
R308 200K
R309 X0
C123 1U
C182 0.01U
C181 0.01U
CD_R
CD_L
CD_GND
20 MIC2
MIC2
L39 BEAD
R314 1K
C118 470P
U13
PC_BEEP
LINE_R
LINE_L
LINE_IN_R
LINE_IN_L
MIC1
MIC2
VIDEO_R
VIDEO_L
AUX_R
AUX_L
PHONE
DVDD1
DVDD2
DVSS1
DVSS2
AVDD1
AVDD2
AVDD3
AVSS1
AVSS2
AVSS4
AVSS3
XTL_IN
XTL_OUT
AD1885
C179 0.1U
C180 0.1U
C183 0.1U
C184 0.1U
VCC3
VCC
L33 XL1206
R213 0
R318 X0
R317 0
R320 0
+12V
U14 78L05
IN OUT GND
TC48 10U
C140 0.1U
TC47 10U
C130 0.1U
Y2 24.576M
C138 18P
C139 18P
RESET#
SDATA_OUT
SDATA_IN
SYNC
BIT_CLK
PRI_RST-
AC_SDOUT
AC_SDIN0
AC_SYNC
AC_BITCLK
PRI_RST- 21
AC_SDOUT 11,21
AC_SDIN0 11,21
AC_SYNC 11,21
AC_BITCLK 11,21
CS0
CS1
JS0
JS1
R214 X4.7K
R215 X4.7K
R319 4.7K
R321 4.7K
MONO_OUT
LINE_OUT_R
LINE_OUT_L
HP_OUT_R
HP_OUT_L
AOUT_R
AOUT_L
AOUT_R 20
AOUT_L 20
HPOUT_R
HPOUT_L
HPOUT_R 20
HPOUT_L 20
C137 680P
C129 680P
AFILT1
AFILT2
FILT_L
FILT_R
RX3D
CX3D
C135 X0.1U
C136 0.1U
C128 0.047U
C127 1U
C126 1U
TC41 X10U
C134 270P
C133 270P
TC39 X10U
VREF
VREFOUT
AUVREF
TC42 22U
C132 0.1U
TC40 10U
C125 1U
C131 0.1U
CN4
HEAD4
R157 4.7K
R158 4.7K
R159 4.7K
C120 1U
C124 1U
C121 1U
CD_R
CD_GND
CD_L
R162 4.7K
R161 4.7K
R160 4.7K
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AC97 CHIPS
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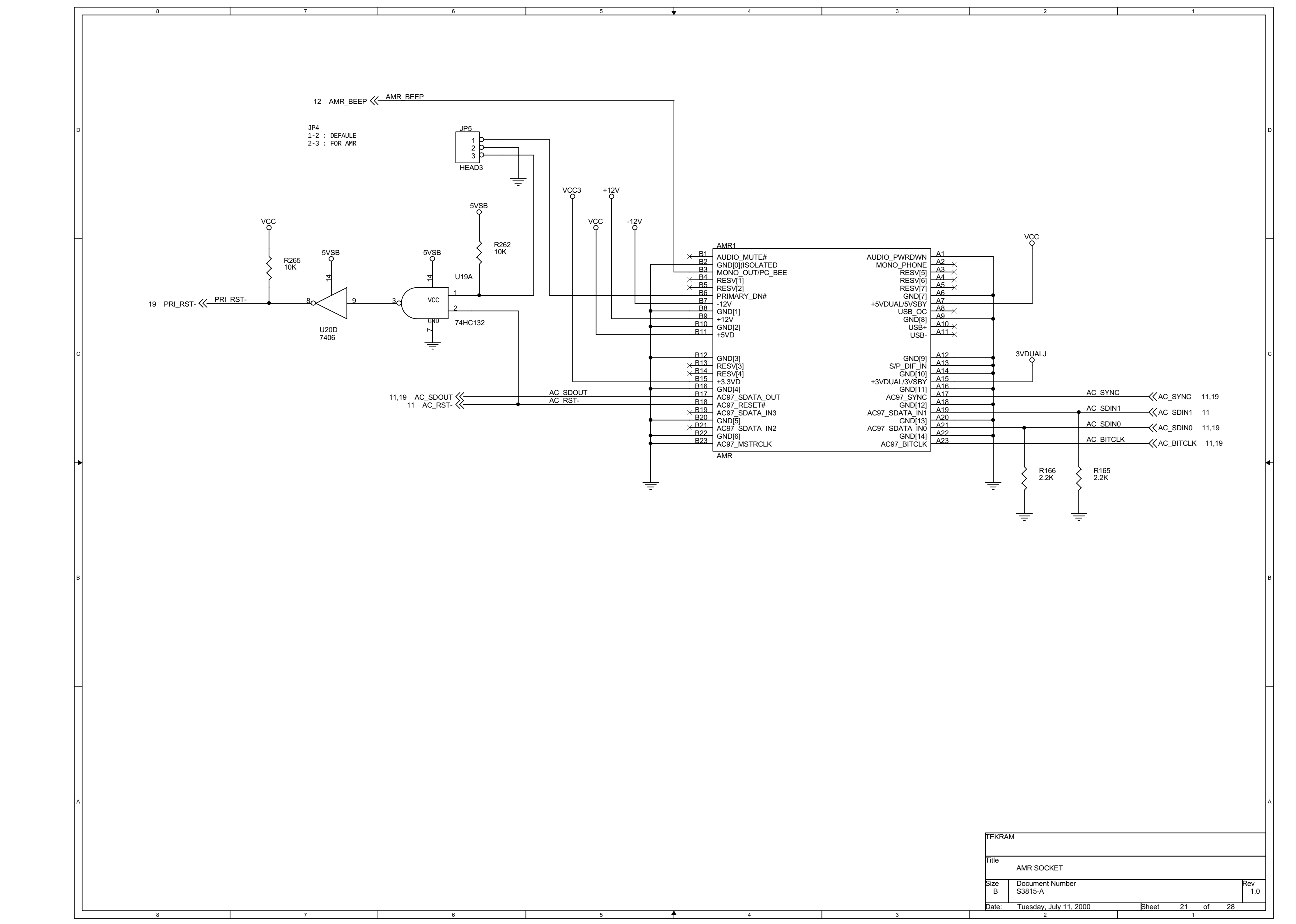


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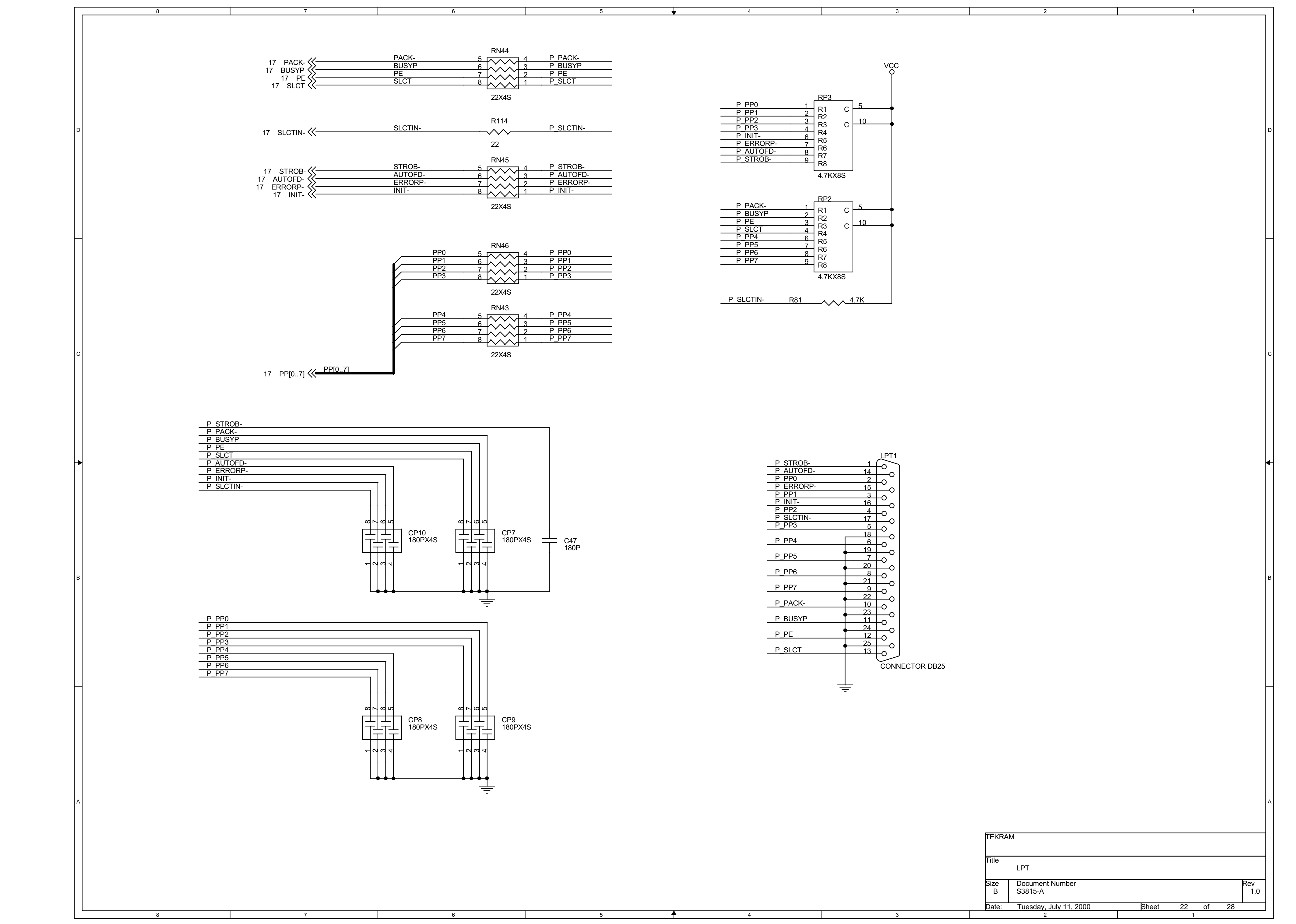
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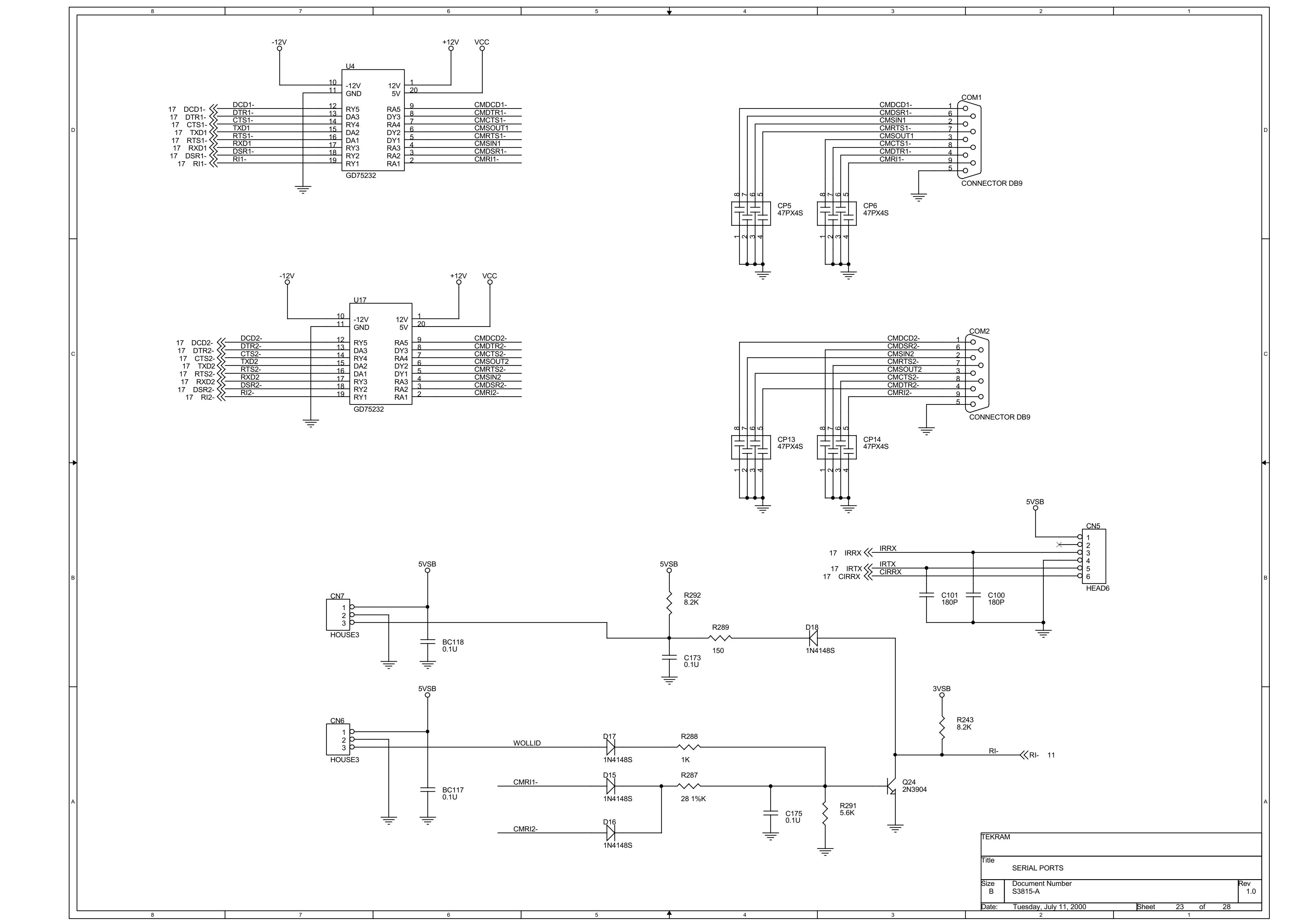
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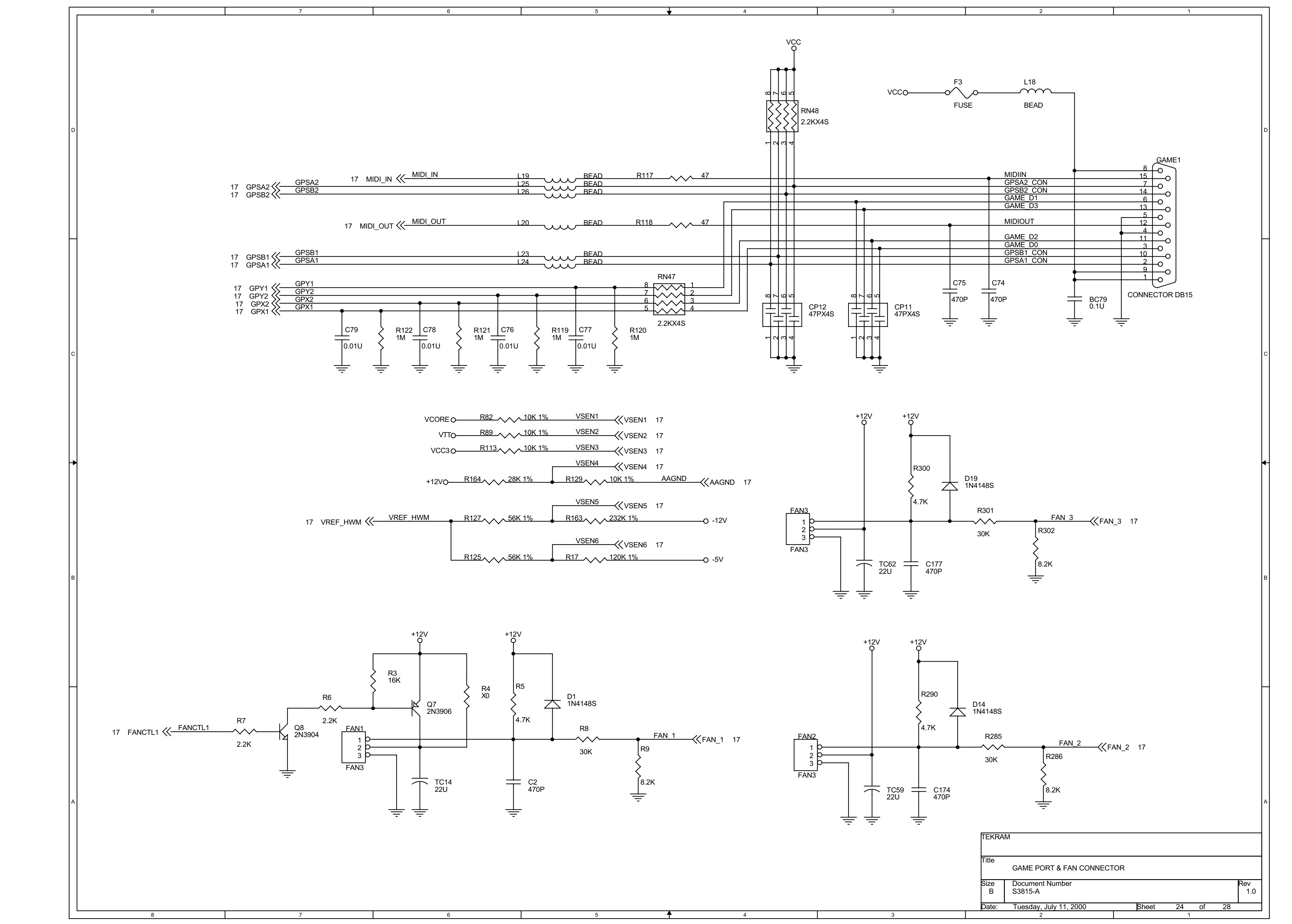


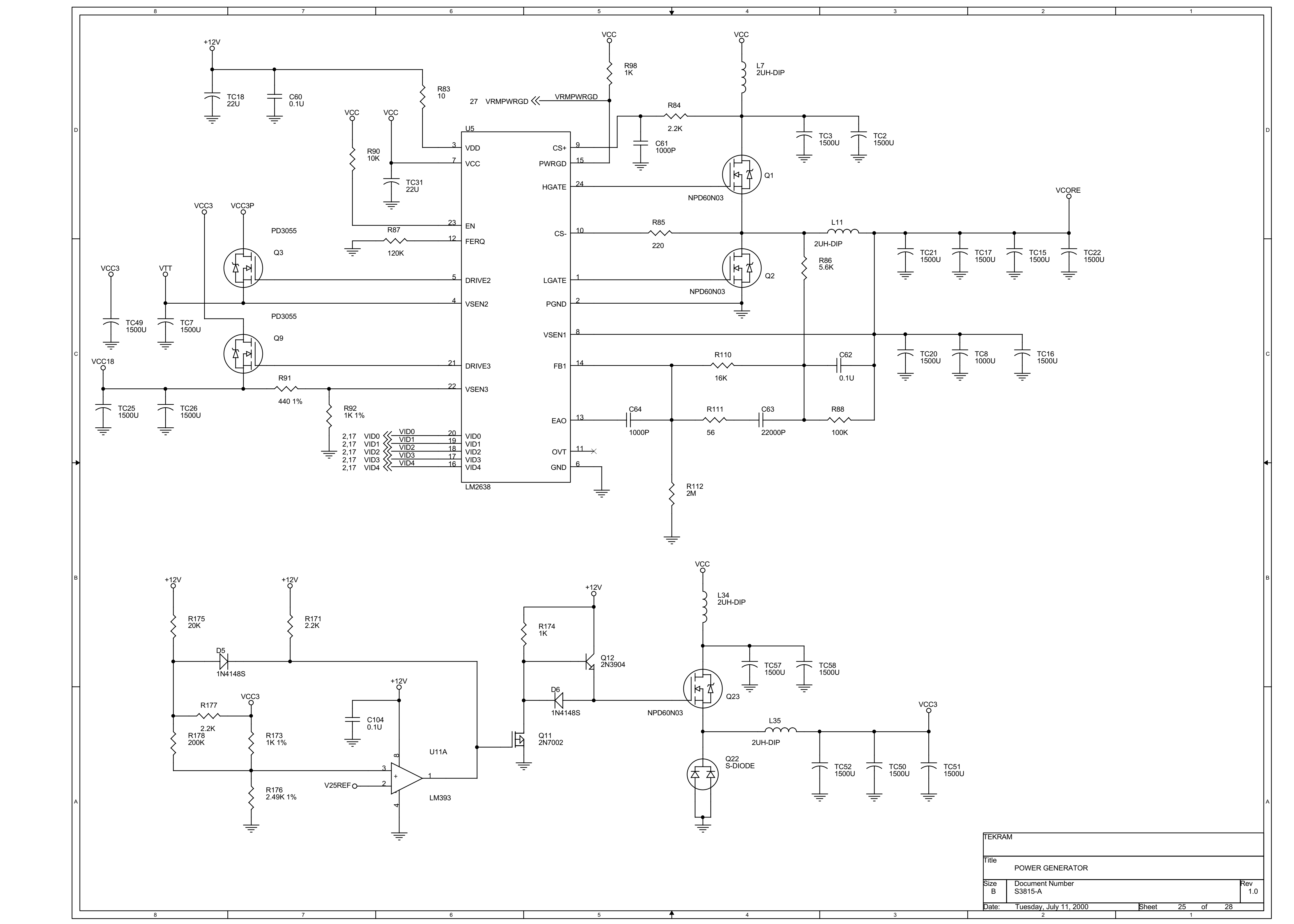
12 AMR_BEEP
AMR_BEEP
JP4
1-2 : DEFAULE
2-3 : FOR AMR
JP5
HEAD3
VCC3
+12V
VCC
-12V
5VSB
R262
10K
VCC
R265
10K
5VSB
5VSB
U19A
74HC132
U20D
7406
19 PRI_RST-
PRI_RST-
AMR1
AUDIO_MUTE#
GND[0](ISOLATED
MONO_OUT/PC_BEE
RESV[1]
RESV[2]
PRIMARY_DN#
-12V
GND[1]
+12V
GND[2]
+5VD
GND[3]
RESV[3]
RESV[4]
+3.3VD
GND[4]
AC97_SDATA_OUT
AC97_RESET#
AC97_SDATA_IN3
GND[5]
AC97_SDATA_IN2
GND[6]
AC97_MSTRCLK
AMR
AUDIO_PWRDWN
MONO_PHONE
RESV[5]
RESV[6]
RESV[7]
GND[7]
+5VDUAL/5VSBY
USB_OC
GND[8]
USB+
USB-
GND[9]
S/P_DIF_IN
GND[10]
+3VDUAL/3VSBY
GND[11]
AC97_SYNC
GND[12]
AC97_SDATA_IN1
GND[13]
AC97_SDATA_IN0
GND[14]
AC97_BITCLK
VCC
3VDUALJ
11,19 AC_SDOUT
11 AC_RST-
AC_SDOUT
AC_RST-
AC_SYNC
AC_SDIN1
AC_SDIN0
AC_BITCLK
AC_SYNC 11,19
AC_SDIN1 11
AC_SDIN0 11,19
AC_BITCLK 11,19
R166
2.2K
R165
2.2K
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AMR SOCKET
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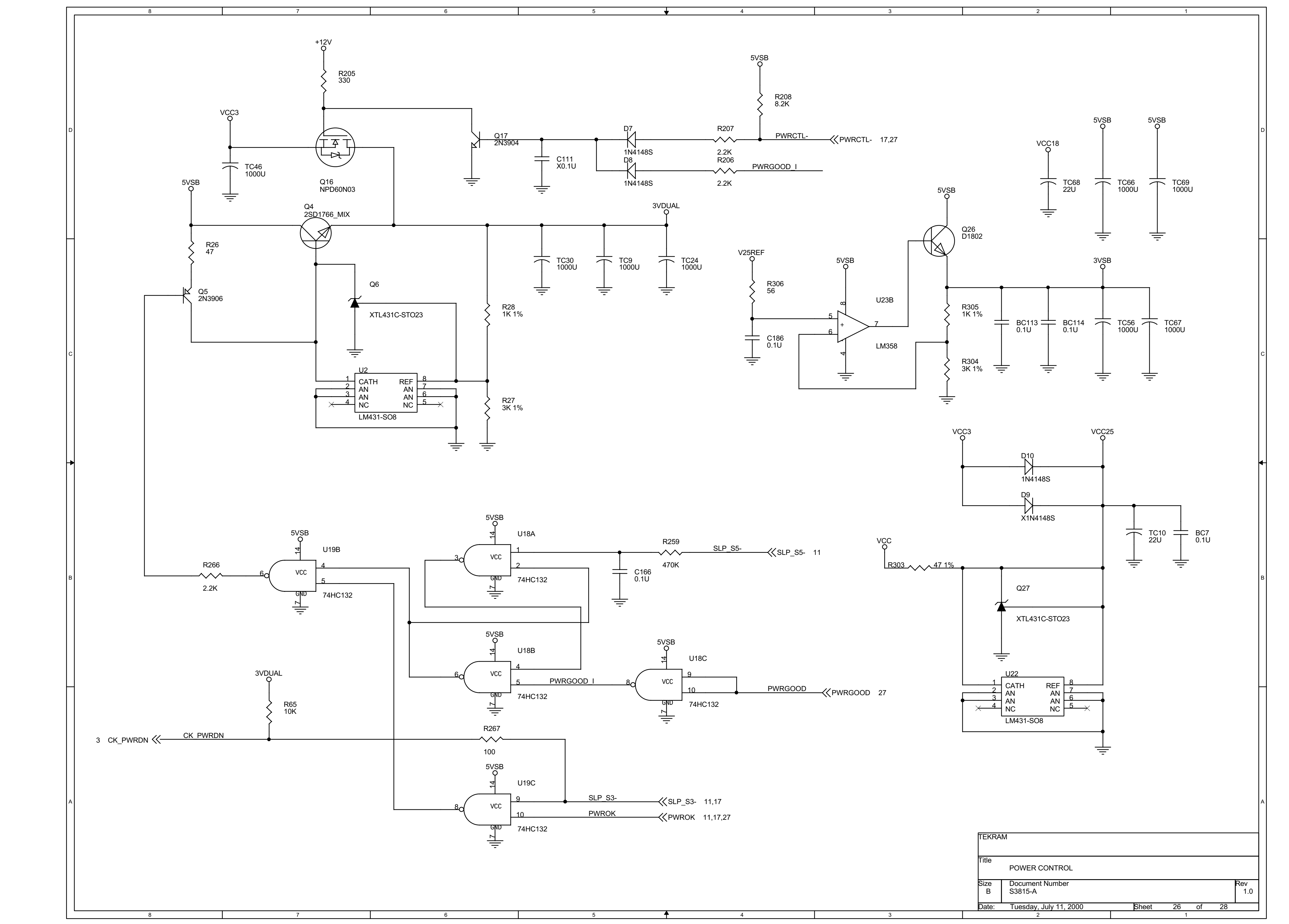
17 PACK-
17 BUSYP
17 PE
17 SLCT
PACK-
BUSYP
PE
SLCT
RN44
22X4S
P_PACK-
P_BUSYP
P_PE
P_SLCT
17 SLCTIN-
SLCTIN-
R114
22
P_SLCTIN-
17 STROB-
17 AUTOFD-
17 ERRORP-
17 INIT-
STROB-
AUTOFD-
ERRORP-
INIT-
RN45
22X4S
P_STROB-
P_AUTOFD-
P_ERRORP-
P_INIT-
PP0
PP1
PP2
PP3
RN46
22X4S
P_PP0
P_PP1
P_PP2
P_PP3
PP4
PP5
PP6
PP7
RN43
22X4S
P_PP4
P_PP5
P_PP6
P_PP7
17 PP[0..7]
PP[0..7]
VCC
RP3
R1
R2
R3
R4
R5
R6
R7
R8
C
C
4.7KX8S
RP2
4.7KX8S
P_SLCTIN-
R81
4.7K
CP10
180PX4S
CP7
180PX4S
C47
180P
CP8
180PX4S
CP9
180PX4S
LPT1
CONNECTOR DB25
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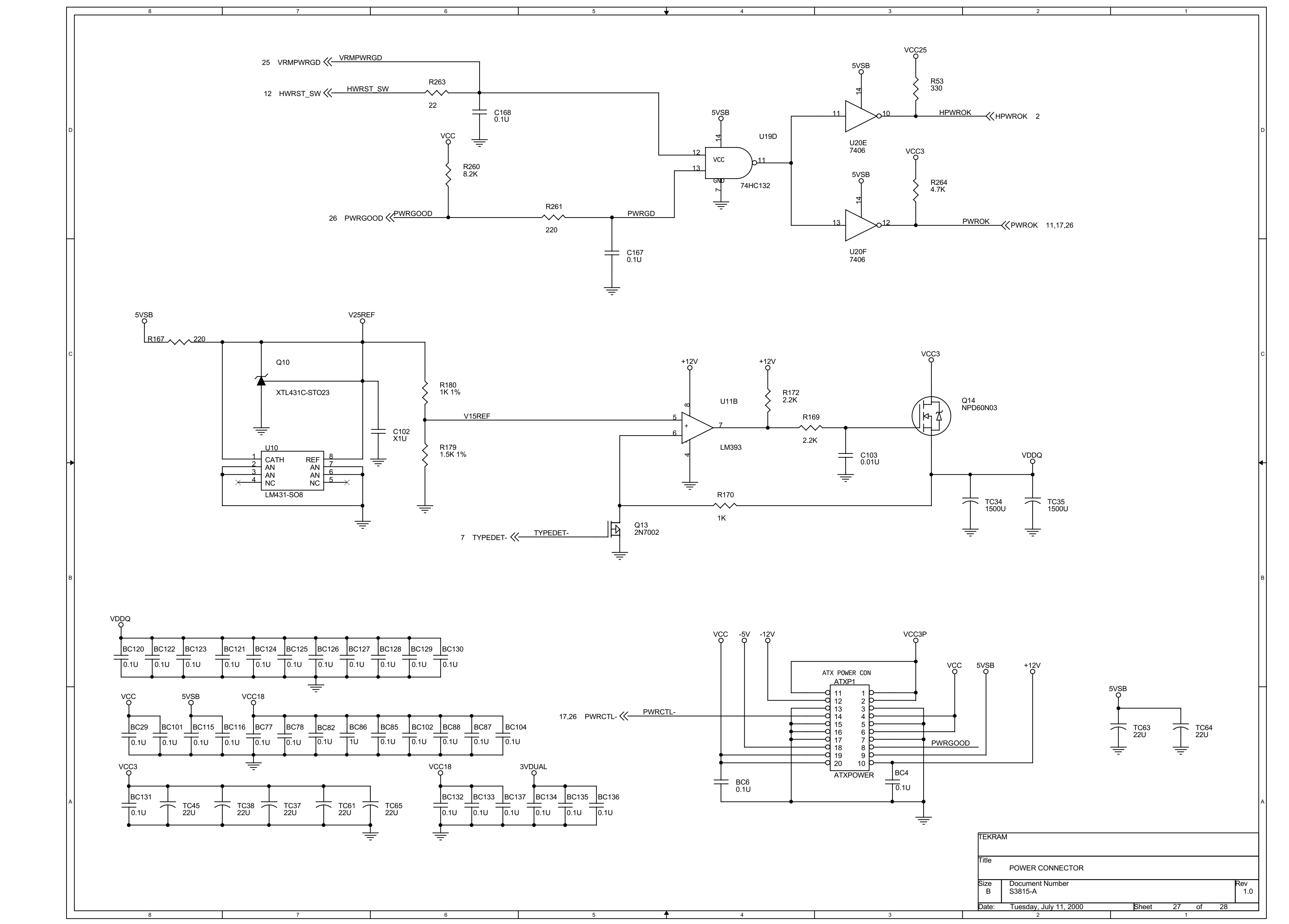

U4
GD75232
-12V
+12V
VCC
DCD1-
DTR1-
CTS1-
TXD1
RTS1-
RXD1
DSR1-
RI1-
CMDCD1-
CMDTR1-
CMCTS1-
CMSOUT1
CMRTS1-
CMSIN1
CMDSR1-
CMRI1-
U17
GD75232
DCD2-
DTR2-
CTS2-
TXD2
RTS2-
RXD2
DSR2-
RI2-
CMDCD2-
CMDTR2-
CMCTS2-
CMSOUT2
CMRTS2-
CMSIN2
CMDSR2-
CMRI2-
COM1
CONNECTOR DB9
CP5 47PX4S
CP6 47PX4S
COM2
CONNECTOR DB9
CP13 47PX4S
CP14 47PX4S
5VSB
CN5
HEAD6
IRRX
IRTX
CIRRX
C101 180P
C100 180P
CN7
HOUSE3
BC118 0.1U
R292 8.2K
R289 150
D18 1N4148S
C173 0.1U
3VSB
R243 8.2K
RI-
CN6
HOUSE3
BC117 0.1U
WOLLID
D17 1N4148S
R288 1K
CMRI1-
D15 1N4148S
R287 28 1%K
C175 0.1U
R291 5.6K
Q24 2N3904
CMRI2-
D16 1N4148S
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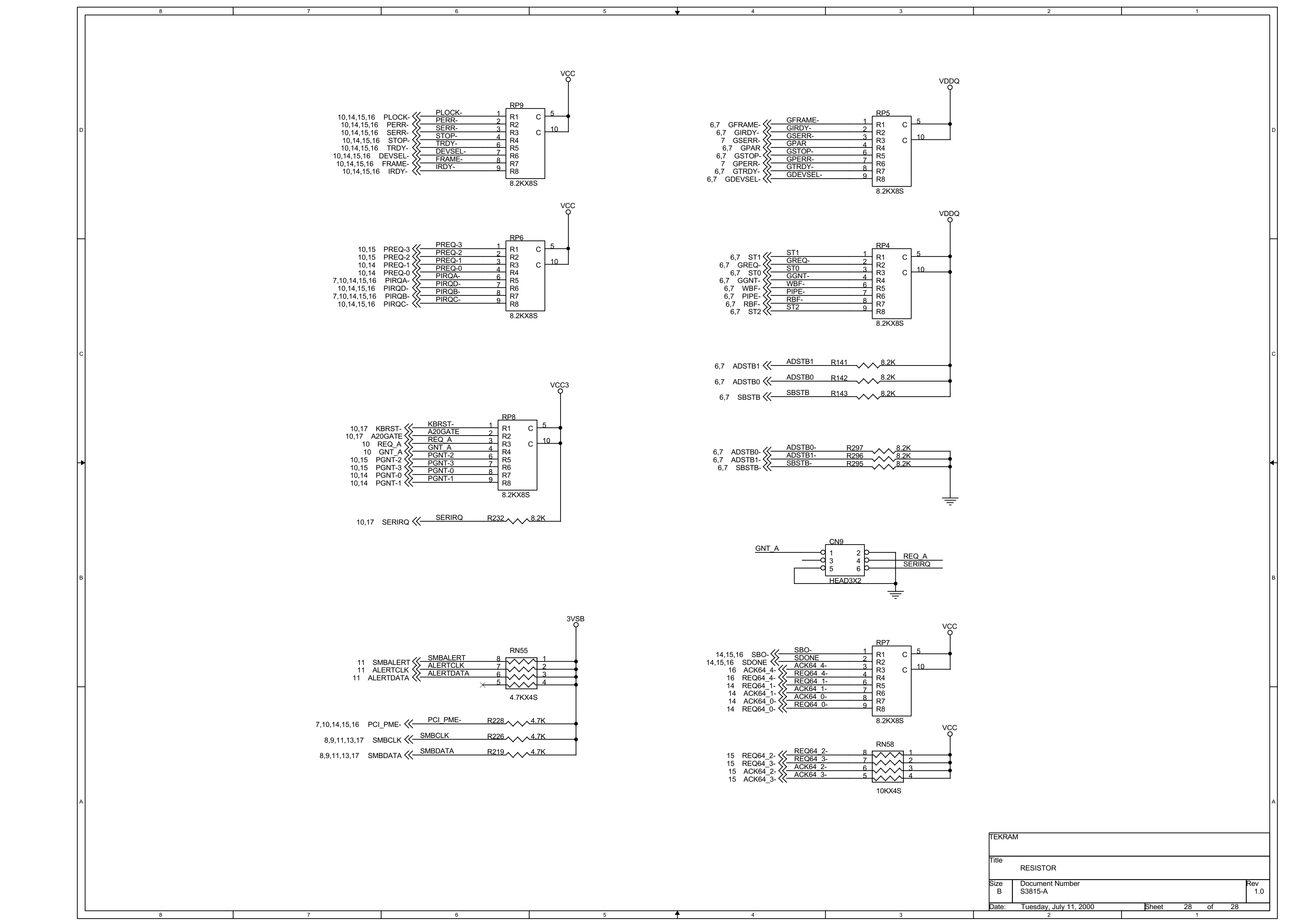

VCC
RN48
2.2KX4S
VCC
F3
FUSE
L18
BEAD
GAME1
17 MIDI_IN
MIDI_IN
L19 BEAD R117 47
MIDIIN
17 GPSA2
GPSA2
L25 BEAD
GPSA2_CON
17 GPSB2
GPSB2
L26 BEAD
GPSB2_CON
GAME_D1
GAME_D3
17 MIDI_OUT
MIDI_OUT
L20 BEAD R118 47
MIDIOUT
GAME_D2
GAME_D0
17 GPSB1
GPSB1
L23 BEAD
GPSB1_CON
17 GPSA1
GPSA1
L24 BEAD
GPSA1_CON
CONNECTOR DB15
RN47
2.2KX4S
17 GPY1
GPY1
17 GPY2
GPY2
17 GPX2
GPX2
17 GPX1
GPX1
C79 0.01U
R122 1M
C78 0.01U
R121 1M
C76 0.01U
R119 1M
C77 0.01U
R120 1M
CP12 47PX4S
CP11 47PX4S
C75 470P
C74 470P
BC79 0.1U
VCORE R82 10K 1% VSEN1 VSEN1 17
VTT R89 10K 1% VSEN2 VSEN2 17
VCC3 R113 10K 1% VSEN3 VSEN3 17
VSEN4 VSEN4 17
+12V R164 28K 1% R129 10K 1% AAGND AAGND 17
VSEN5 VSEN5 17
17 VREF_HWM VREF_HWM R127 56K 1% R163 232K 1% -12V
VSEN6 VSEN6 17
R125 56K 1% R17 120K 1% -5V
+12V
+12V
R300 4.7K
D19 1N4148S
FAN3
FAN3
R301 30K
FAN_3 FAN_3 17
R302 8.2K
TC62 22U
C177 470P
+12V
+12V
R3 16K
R4 X0
R5 4.7K
D1 1N4148S
R6 2.2K
Q7 2N3906
17 FANCTL1 FANCTL1
R7 2.2K
Q8 2N3904
FAN1
FAN3
R8 30K
FAN_1 FAN_1 17
R9 8.2K
TC14 22U
C2 470P
+12V
+12V
R290 4.7K
D14 1N4148S
FAN2
FAN3
R285 30K
FAN_2 FAN_2 17
R286 8.2K
TC59 22U
C174 470P
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+12V
TC18
22U
C60
0.1U
R83
10
27 VRMPWRGD
VRMPWRGD
VCC
R98
1K
VCC
L7
2UH-DIP
R84
2.2K
C61
1000P
TC3
1500U
TC2
1500U
VCC
VCC
R90
10K
TC31
22U
U5
3 VDD
7 VCC
23 EN
12 FERQ
5 DRIVE2
4 VSEN2
21 DRIVE3
22 VSEN3
20 VID0
19 VID1
18 VID2
17 VID3
16 VID4
CS+ 9
PWRGD 15
HGATE 24
CS- 10
LGATE 1
PGND 2
VSEN1 8
FB1 14
EAO 13
OVT 11
GND 6
LM2638
Q1
NPD60N03
R85
220
VCORE
L11
2UH-DIP
TC21
1500U
TC17
1500U
TC15
1500U
TC22
1500U
R86
5.6K
Q2
NPD60N03
R87
120K
VCC3
VCC3P
PD3055
Q3
VCC3
VTT
TC49
1500U
TC7
1500U
PD3055
Q9
VCC18
R91
440 1%
R92
1K 1%
TC25
1500U
TC26
1500U
2,17 VID0
2,17 VID1
2,17 VID2
2,17 VID3
2,17 VID4
TC20
1500U
TC8
1000U
TC16
1500U
R110
16K
C62
0.1U
C64
1000P
R111
56
C63
22000P
R88
100K
R112
2M
+12V
R175
20K
+12V
R171
2.2K
D5
1N4148S
R177
2.2K
VCC3
R178
200K
R173
1K 1%
R176
2.49K 1%
+12V
C104
0.1U
U11A
LM393
V25REF
+12V
R174
1K
Q12
2N3904
D6
1N4148S
Q11
2N7002
VCC
L34
2UH-DIP
TC57
1500U
TC58
1500U
Q23
NPD60N03
L35
2UH-DIP
VCC3
Q22
S-DIODE
TC52
1500U
TC50
1500U
TC51
1500U
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+12V
R205
330
VCC3
TC46
1000U
Q16
NPD60N03
Q17
2N3904
C111
X0.1U
D7
1N4148S
D8
1N4148S
R207
2.2K
R206
2.2K
5VSB
R208
8.2K
PWRCTL-
PWRCTL- 17,27
PWRGOOD_I
5VSB
Q4
2SD1766_MIX
3VDUAL
R26
47
Q5
2N3906
Q6
XTL431C-STO23
TC30
1000U
TC9
1000U
TC24
1000U
R28
1K 1%
R27
3K 1%
U2
CATH
AN
AN
NC
REF
AN
AN
NC
LM431-SO8
VCC18
TC68
22U
TC66
1000U
TC69
1000U
Q26
D1802
V25REF
R306
56
C186
0.1U
U23B
LM358
3VSB
R305
1K 1%
R304
3K 1%
BC113
0.1U
BC114
0.1U
TC56
1000U
TC67
1000U
VCC3
VCC25
D10
1N4148S
D9
X1N4148S
TC10
22U
BC7
0.1U
VCC
R303
47 1%
Q27
XTL431C-STO23
U22
LM431-SO8
U18A
74HC132
R259
470K
SLP_S5-
SLP_S5- 11
C166
0.1U
U19B
R266
2.2K
74HC132
U18B
74HC132
PWRGOOD_I
U18C
74HC132
PWRGOOD
PWRGOOD 27
3VDUAL
R65
10K
3 CK_PWRDN
CK_PWRDN
R267
100
U19C
74HC132
SLP_S3-
SLP_S3- 11,17
PWROK
PWROK 11,17,27
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25 VRMPWRGD
VRMPWRGD
12 HWRST_SW
HWRST_SW
R263
22
C168
0.1U
VCC
R260
8.2K
26 PWRGOOD
PWRGOOD
R261
220
PWRGD
C167
0.1U
5VSB
U19D
74HC132
U20E
7406
U20F
7406
VCC25
R53
330
HPWROK
HPWROK 2
VCC3
R264
4.7K
PWROK
PWROK 11,17,26
R167
220
V25REF
Q10
XTL431C-STO23
R180
1K 1%
C102
X1U
U10
CATH
REF
AN
NC
LM431-SO8
R179
1.5K 1%
V15REF
+12V
U11B
LM393
R172
2.2K
R169
2.2K
C103
0.01U
Q14
NPD60N03
VDDQ
TC34
1500U
TC35
1500U
R170
1K
Q13
2N7002
7 TYPEDET-
TYPEDET-
VDDQ
BC120 BC122 BC123 BC121 BC124 BC125 BC126 BC127 BC128 BC129 BC130
0.1U
BC29 BC101 BC115 BC116 BC77 BC78 BC82 BC86 BC85 BC102 BC88 BC87 BC104
1U
VCC18
VCC3
BC131
TC45 TC38 TC37 TC61 TC65
22U
3VDUAL
BC132 BC133 BC137 BC134 BC135 BC136
-5V
-12V
VCC3P
ATX POWER CON
ATXP1
ATXPOWER
17,26 PWRCTL-
PWRCTL-
BC6
0.1U
BC4
0.1U
TC63
22U
TC64
22U
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VCC
RP9
8.2KX8S
10,14,15,16 PLOCK-
10,14,15,16 PERR-
10,14,15,16 SERR-
10,14,15,16 STOP-
10,14,15,16 TRDY-
10,14,15,16 DEVSEL-
10,14,15,16 FRAME-
10,14,15,16 IRDY-
VDDQ
RP5
8.2KX8S
6,7 GFRAME-
6,7 GIRDY-
7 GSERR-
6,7 GPAR
6,7 GSTOP-
7 GPERR-
6,7 GTRDY-
6,7 GDEVSEL-
RP6
8.2KX8S
10,15 PREQ-3
10,15 PREQ-2
10,14 PREQ-1
10,14 PREQ-0
7,10,14,15,16 PIRQA-
10,14,15,16 PIRQD-
7,10,14,15,16 PIRQB-
10,14,15,16 PIRQC-
RP4
8.2KX8S
6,7 ST1
6,7 GREQ-
6,7 ST0
6,7 GGNT-
6,7 WBF-
6,7 PIPE-
6,7 RBF-
6,7 ST2
6,7 ADSTB1 R141 8.2K
6,7 ADSTB0 R142 8.2K
6,7 SBSTB R143 8.2K
VCC3
RP8
8.2KX8S
10,17 KBRST-
10,17 A20GATE
10 REQ_A
10 GNT_A
10,15 PGNT-2
10,15 PGNT-3
10,14 PGNT-0
10,14 PGNT-1
10,17 SERIRQ R232 8.2K
6,7 ADSTB0- R297 8.2K
6,7 ADSTB1- R296 8.2K
6,7 SBSTB- R295 8.2K
CN9
HEAD3X2
GNT_A
REQ_A
SERIRQ
3VSB
RN55
4.7KX4S
11 SMBALERT
11 ALERTCLK
11 ALERTDATA
7,10,14,15,16 PCI_PME- R228 4.7K
8,9,11,13,17 SMBCLK R226 4.7K
8,9,11,13,17 SMBDATA R219 4.7K
RP7
8.2KX8S
14,15,16 SBO-
14,15,16 SDONE
16 ACK64_4-
16 REQ64_4-
14 REQ64_1-
14 ACK64_1-
14 ACK64_0-
14 REQ64_0-
RN58
10KX4S
15 REQ64_2-
15 REQ64_3-
15 ACK64_2-
15 ACK64_3-
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